

- 1. Surfacing of paved areas shall comply with street cut Std. Drg. RD302.
- For pipe installation in embankment areas where the trench method will not be used and the pipe is ≥ 38" diameter, increase dimension "B" to nominal pipe diameter.
- 3. Pipes over 72" diameter are structures, and are not applicable to this drawing.
- 4. See Std. Drg. RD336 for tracer wire details (When required).

сада, воок ноN/A	BASEL	INE REPORT DATE18-DEC-2009
	NOTE:	All material and workmanship shall be in accordance with the current Oregon Standard Specifications
The selection and use of this	OF	REGON STANDARD DRAWINGS
Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole respon-	1	FRENCH BACKFILL, BEDDING, PIPE ZONE AND MULTIPLE INSTALLATIONS
sibility of the user and should not	1	2008
be used without consulting a	DATE	REVISION DESCRIPTION
Mandalana d Mandana tana d Mandana	06-8009	ADDIED AND REYISED NOTES
Registered Professional Engineer.		

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For pipes over 72" diameter, see general note 3.

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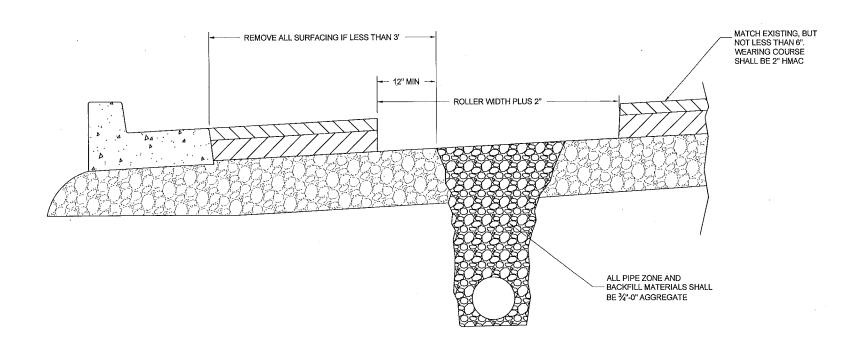
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MODIFICATIONS TO RD300 1. DELETE CLASS "C" BACKFILL.
2. "D" DIMENSION SHALL BE 12" IN ALL PIPE SIZES. 3. MINIMUM DEPTH OF TOP SOIL SHALL BE 8". 4. CLASS "B" BACKFILL MAY BE 1-1/2"-0.
5. DELETE GENERAL NOTE 1. AC STREET CUTS SHALL COMPLY WITH CRD302. PCC STREET CUTS SHALL COMPLY WITH DET1601.
·
ADDITIONAL NOTES TO RD300
CITY OF EUGENE
STANDARD DRAWING AMENDMENT Eugene
TRENCH BACKFILL, BEDDING, PIPE ZONE AND MULTIPLE INSTALLATIONS
REVISIONS DATE DESCRIPTION
DATE DESCRIPTION 5/06 DELETE NOTE
1/13 MODIFIED NOTES

RD300(A)



NOTES

- 1. A ROTARY SAW SHALL BE USED TO CUT THE FULL DEPTH OF HARD SURFACE.
- 2. PAVEMENT CUTS SHALL BE PARALLEL OR PERPENDICULAR TO THE CENTER LINE OF THE STREET.
- 3. PATCH MATERIAL MUST MATCH STREET SURFACE MATERIAL. IF THE STREET IS CONCRETE WITH AN AC OVERLAY, REPLACE TO MATCH EXISTING.
- 4. ASPHALT SHALL BE $\frac{1}{2}$ " DENSE GRADED, LEVEL 2 FOR LOCAL AND COLLECTOR STREETS AND LEVEL 3 FOR ARTERIAL STREETS.
- 5. EDGES OF THE PATCH SHALL BE SEALED AND SANDED. A FOG COAT SHALL BE APPLIED TO THE ENTIRE PATCH.

CITY OF EUGENE STANDARD DRAWING AMENDMENT

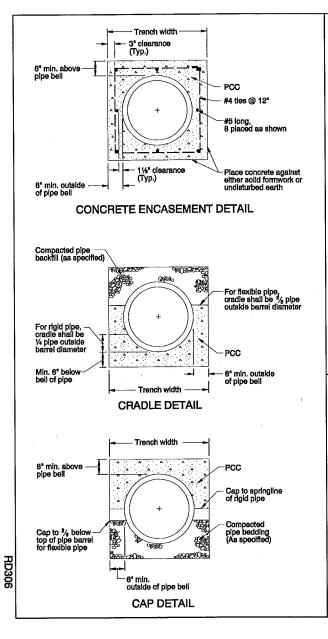


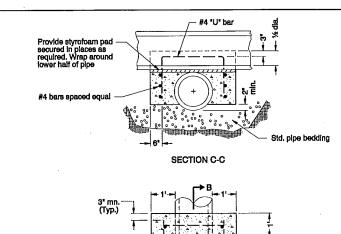
ASPHALT STREET CUT

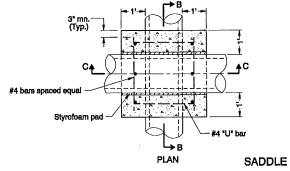
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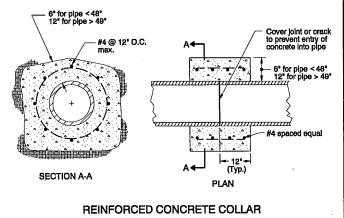
1/13

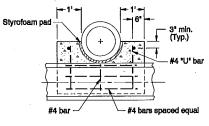
CRD302









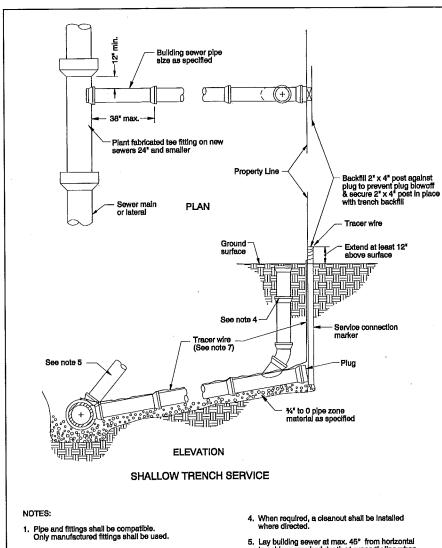


SECTION B-B

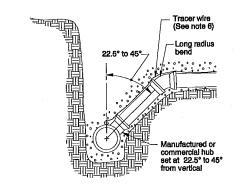
- 1. All concrete shall be commercial grade concrete.
- 2. End all reinforcing 3" clear of ground, forms or top surface.
- 3. Trowel finish top surface of saddle, and cradle.
- 4. Reinforcement shall be # 4 vertical & horizontal bars as shown.
- 5. See Std. Drg. RD300 for trench backfill, bedding, etc.
- 6. See Std. Drg. RD336 for tracer wire details (When required).
- 7. Pipe over 72" diameter are structures, and are not applicable to this drawing.

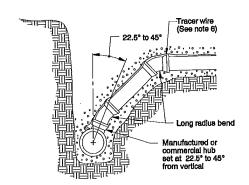
сада, воок но	BASELINE REPORT DATE18-DEC-2009				
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications				
The selection and use of this	OREGON STANDARD DRAWINGS				
Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole respon-	CONCRETE ENCASEMENT, CRADLE, AND CAP DETAILS				
sibility of the user and should not	2008				
be used without consulting a	DATE REVISION DESCRIPTION				
Registered Professional Engineer.	19-8000 ADDED NOTE				



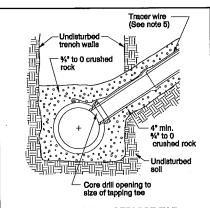


- Minimum depth at right of way or easement line shall be 4'.
- Marker posts and blocking shall be treated wood. Post shall be 2" x 4" fir. Post to extend 12" minimum above finish grade and exposed area shall be painted
- Lay building sewer at max. 45° from horizontal to achieve required depth at property line when minimum slope results in excessive depth.
- 6. For bedding and backfill see Std. Drg. RD300.
- 7. See Std. Drg. RD338 for tracer wire details.





DEEP TRENCH SERVICE



WASTEWATER SERVICE TAP

NOTES:

- Seat tee in place to fit outside surface of carrier pipe and to form watertight seal.
- Type of tapping tee shall be watertight and conform to standard specification requirements.
- Tapping tee shall not protrude into pipe except as approved by the engineer.
- 4. For bedding and backfill, see Std. Drg. RD300.
- 5. See Std. Drg. RD336 for tracer wire details.

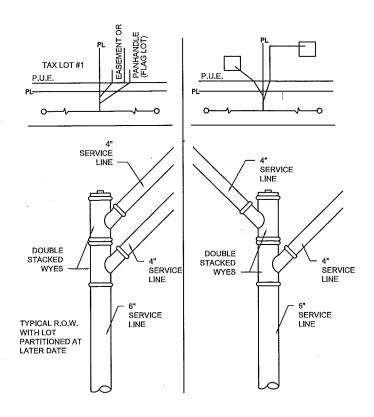
NOTES:

- 1. Pipe and fittings shall be compatible. Only manufactured fittings shall
- 2. For details not shown see shallow trench service connection drawing.
- Vertical trench walls are required. If it is not possible to maintain vertical trench walls, use alternate connection method to maintain 6° maximum distance between riser pipe, and trench walls. Replace all excavated or disturbed material with full depth granular backfill compacted to 95% relative density.
- Where deep connection is at an angle less than 45° from vertical, ductile iron pipe and fittings should be used.

- 5. For bedding and backfill, see Std. Drg. RD300.
- 6. See Std. Drg. RD336 for tracer wire details.

сада, воож ноN/A	BASELI	NE REPORT DATE				
The selection and use of this Standard Drawing, while designed	NOTE:	All material and workmanehip shall be in accordance with the current Oregon Standard Specifications				
	OREGON STANDARD DRAWINGS					
in accordance with generally accepted engineering principles and practices, is the sole respon-	SHALLOW/DEEP TRENCH SERVICE CONNECTION, BLOCKING AND MARKERS					
sibility of the user and should not	1	2008				
be used without consulting a	DATE	REVISION DESCRIPTION				
Registered Professional Engineer.	19-2009	REVISED DETAILS AND ADDED NOTES				
riogiotorea i torocciona anguirori						
						

ADDITIONAL DETAILS



NOTE: MAX, 3 WYES. 3 WYES REQUIRES A RISER CLEANOUT BEHIND THE LAST WYE.

MULTIPLE SERVICE LINE CONNECTIONS

MODIFICATIONS TO RD310

- 1. DELETE RIGHT HAND DETAIL ON DEEP SERVICE.
- 2. DELETE NOTE #4 ON DEEP TRENCH SERVICE DETAIL.
 3. DELETE NOTE #3 ON SHALLOW TRENCH SERVICE.

ADDITIONAL NOTES TO RD310

- (DEEP TRENCH SERVICE): DEEP TRENCH SERVICE
 TO BE USED ONLY WHEN MAINLINE IS GREATER
 THAN 10' DEEP.
- 2. MARKER POSTS AND BLOCKING SHALL BE 2X4, EXTENDING 12" ABOVE SURROUNDING SURFACE AND PAINTED GREEN.

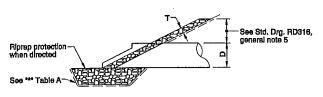
CITY OF EUGENE STANDARD DRAWING AMENDMENT



SHALLOW/DEEP TRENCH SERVICE CONNECTION, BLOCKING AND MARKERS

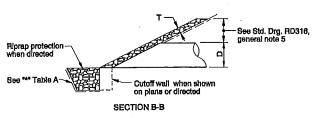
	REVISIONS
DATE	DESCRIPTION
5/06	CHANGE NOTE 2
5/08	DELETED SERVICE TAP DRAWING

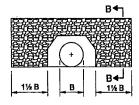
RD310(A)



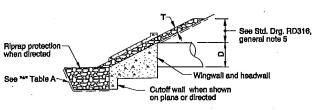
SECTION A-A

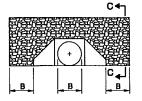
SLOPED OR PROJECTING END





SLOPED END WITH SLOPE PAVING





SECTION C-C

HEADWALL AND WINGWALLS

- B = Diameter of circular barrel or span of arch pipe, box, or open-bottom arch.
- D = Diameter of circular barrel or rise of arch pipe, box, or open-bottom arch.
- T = Thickness of riprap blanket, see Table A.

TAB	LE A
Riprap Class	T Distance
50 100 200 700	12 Inches 18 Inches 24 Inches * 36 Inches *

* Filter blanket required between riprap and embankment

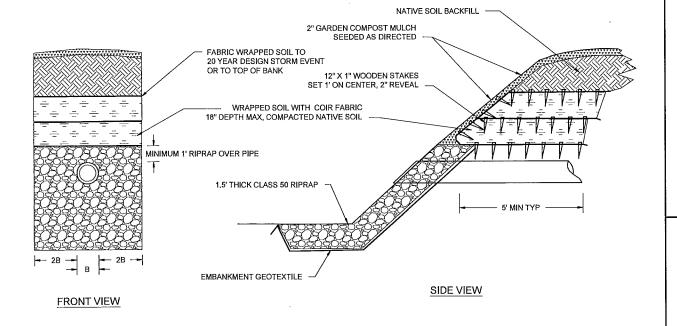
GENERAL NOTES FOR ALL DETAILS:

- 1. See Std. Drgs. RD300 & RD304 for installation details.
- Open ends of pipes normally require a site specific design, and may require special treatment (sloped ends, culvert embankment protection, paved end slopes, safety end sections, or other measures).See special details or Standard Drawings as called for on plans.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

ADDITIONAL DETAILS

MODIFICATIONS TO RD317



ADDITIONAL NOTES TO RD317

1. OPEN WATERWAY OUTLET PROTECTION TREATMENT SHALL BE USED UNLESS ENGINEER DIRECTS OTHERWISE

OPEN WATERWAY OUTLET PROTECTION

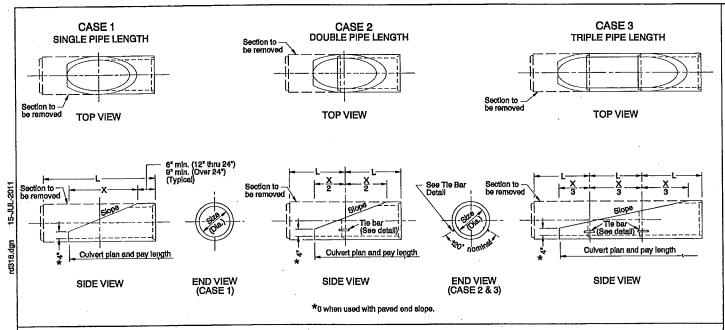
CITY OF EUGENE STANDARD DRAWING AMENDMENT



OPEN WATERWAY OUTLET PROTECTION

	REVISIONS
DATE	DESCRIPTION
12/09	REMOVE TRASH RACK, ADD OUTFALL DETAIL

RD317(A)



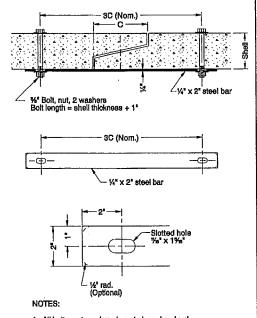
NOTE:

Sloped ends shall be made from minimum Class III concrete pipe.

"X" Values shown are for vertical dimension at bottom of sloped end = 0.

TABLE A

										SL	OPE										
		1:1.5			1:2			1:2.5			1:3				1:4				1:6		
SIZE			CASE 2		CASE 1	CASE 2		CASE 1	CASE 2		CASE 1	CASE 2		CASE 1	CASE 2	CASE 3		CASE 1	CASE 2		
(Diameter)	x	L (Min.)	L (Min.)	X	L (Min.)	L (Min.)	×	(Min.)	L (Mln.)	х	(Min.)	L (Min.)	x	L (Min.)	L (Min.)	L (Min.)	х	L (Min.)	(Min.)	L (Min.)	(Diameter)
									DIME	NSIO	N IN INC	CHES									
12	18	36	36	24	38	36	30	48	36	38	. 72	. 38	48		38		72	90	48		12
15	22.5	38	38	30	48	. 36	37,5	72	36	45	72	38	60	72	38	1	90		72		15
18	27	.48	36	36	48	36	45	72	36	54	72	36	72	90	48	1	108	l	72	l	18
21	31.5	48	36	42	72	38	52,5	72	36	63	90	48	84	l	. 72	1	126		. 90		21
24	38	48	36	48	72	38	60	90	48	72	90	48	96	<u> </u>	72	.]	144		90		24
27	40.5	72	38	54	72	38	87.5	90	.48	81	1	. 72	108	l	72	1	162	l	1	72	27
30	45	72	36	60	90	48	75	I	48	90		. 72	120	l	90		180	1	1	72	30
33	49.5	72	38	66	90	48	82.5	1	72	99		72	132	l	90		198		.l	90	33
38	54	72	36	72	90	48_	90_	1	72	108	l	72	144		90	l	216	1		. 90	38
42	63	.90	48	84		72	105	1	72	126]	90	168	1		72	252	1	1	90	42
48	72	90	48	98	1	72	120	1	90	144] <i></i>	90	192	l		80	288	l		Į	48
54	81		72	108		72	135		90				216		<u> </u>	90	324	<u> </u>	<u> </u>	<u> </u>	54



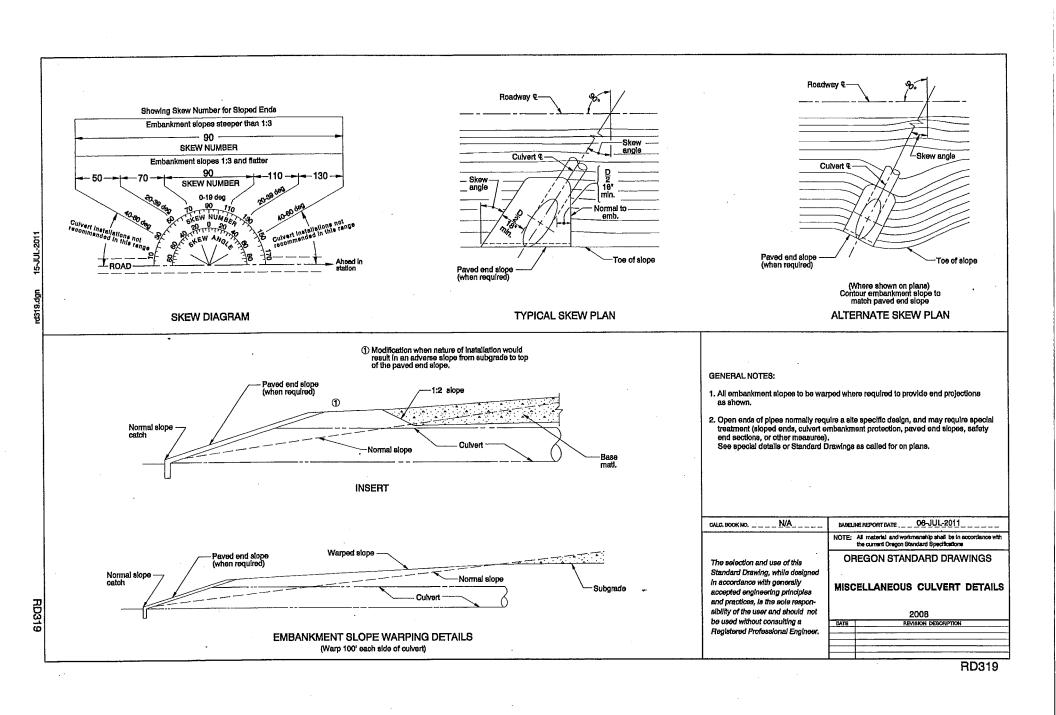
- All boits, nuts and washers to be galvanized.
 The bar to be galvanized after fabrication.
 'C' is tongue length.
 Install 2 tie bars at each joint (See end view, Case 2 & 3).

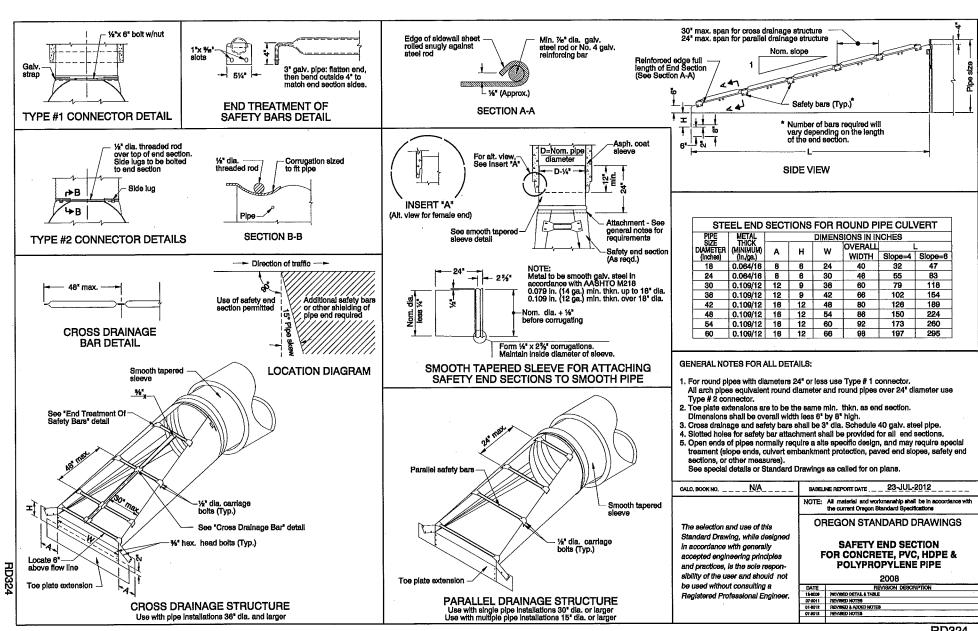
TIE BAR DETAIL

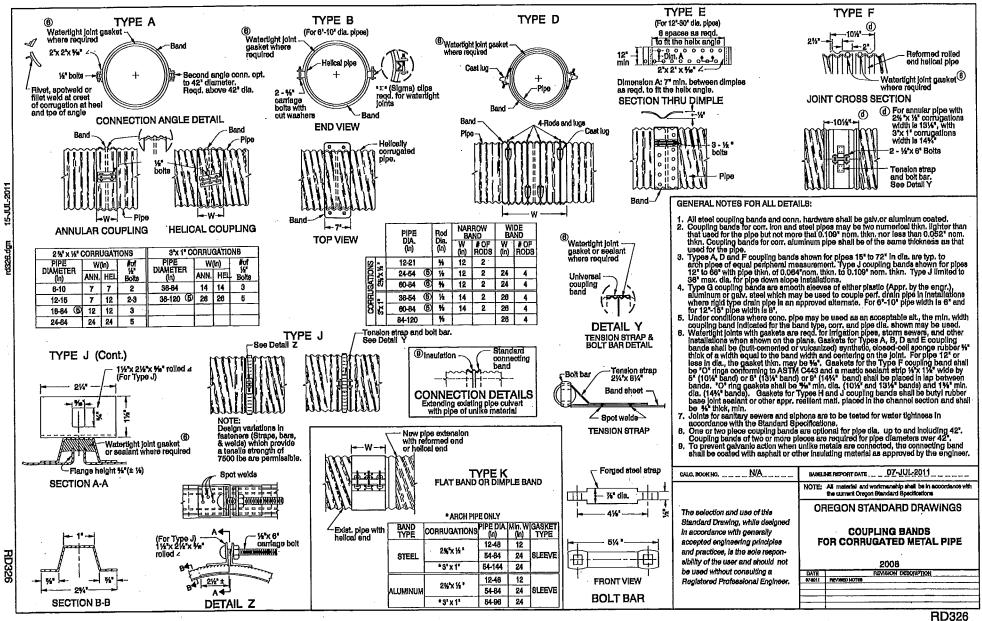
GENERAL NOTES FOR ALL DETAILS:

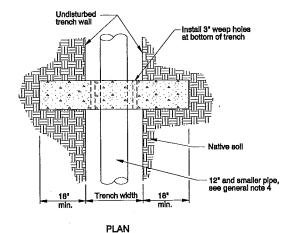
- 1. For dimensions indicated by letter, see Table A.
- Open ends of pipes normally require a site specific design, and may require special treament (slope ends, culvert embankment protection, paved end slopes, safety end sections, or other measures). See special details or Standard Drawings as called for on plans.

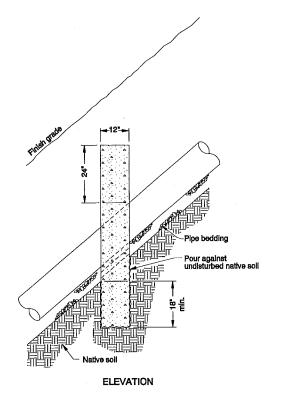
NOTE: All material and workmanship shall be in accordance w	with
the current Oregon Standard Specifications	
The selection and use of this OREGON STANDARD DRAWINGS	
Standard Drawing, while designed In accordance with generally SLOPED ENDS accepted engineering principles FOR CONCRETE PIPE and practices, is the sole respon-	
sibility of the user and should not 2008	
be used without consulting a DATE REVISION DESCRIPTION	
Registered Professional Engineer. 97-9011 REMOVED DETAL, REVISED YAMLE & HOTE	
DDO	_











- Concrete pipe anchors shall be constructed using forms when sewers, storm drains and other pipelines are constructed with slopes 20% or greater. Remove forms prior to backfilling trench.
- 2. All concrete shall be commercial grade concrete.
- 3. Center to center max. spacing of concrete pipe anchors shall be:

SLOPE 20-34% 35-50% 50+ % SPACING (on slope)

35¹

sibility of the user and should not be used without consulting a

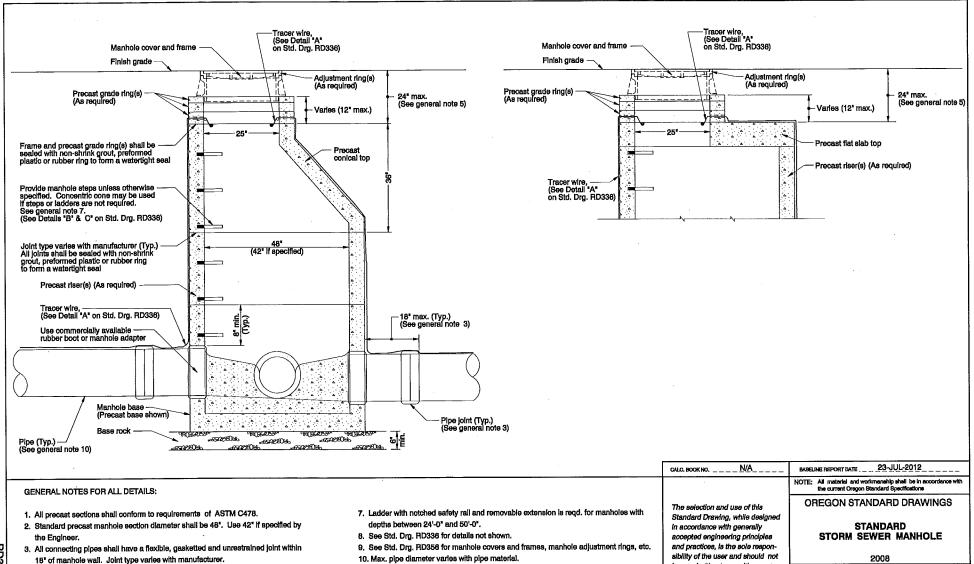
Registered Professional Engineer.

15' or concrete encasement

- 4. Dimensions for embedment for pipes larger than 12° shall be approved by the engineer.
- 5. See Std. Drgs. RD300 & RD304 for pipe installation details.
- 6. See Std. Drg. RD336 for tracer wire details (When required).

CALC. BOOK NO. ______ BASELINE REPORT DATE . _ _ _ _ _ _ _ _ _ _ _ _ _ _ NOTE: All material and workmanehip shall be in accordance with the current Oregon Standard Specifications **OREGON STANDARD DRAWINGS** The selection and use of this Standard Drawing, while designed in accordance with generally **CONCRETE PIPE ANCHORS** accepted engineering principles and practices, is the sole respon-

REVISION DESCRIPTION



11. See Std. Drg. RD342 for shallow manholes.

4. See Std. Drg. RD344 for manhole base section.

6. All connecting pipes shall have a tracer wire, or approved alternate.

5. Adjust 24" maximum.

REVISION DESCRIPTION

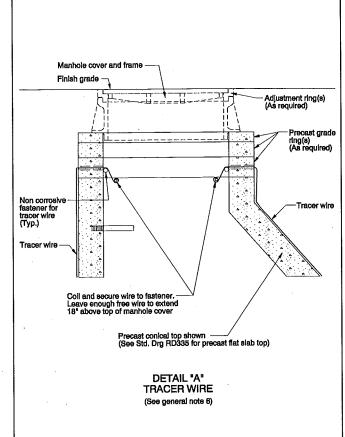
be used without consulting a

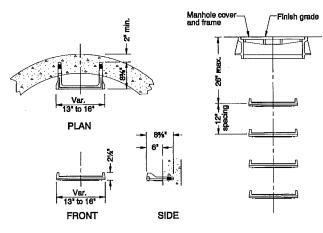
Registered Professional Engineer.

ADDITIONAL DETAILS MODIFICATIONS TO RD335 1. DELETE ALL REFERENCES TO STEPS. STEPS ARE NOT ALLOWED. 2. CONCENTRIC CONES SHALL BE USED UNLESS OTHERWSE SPECIFIED. 3. BARREL DIAMETER SHALL BE 42". 4. DELETE REFERENCES TO NON-SHRINK GROUT. 5. TOTAL PRECAST GRADE RING HEIGHT SHALL BE 12" MINIMUM AND 24" MAXIMUM. 6. NON-CORROSIVE FASTENERS FOR TRACER WRE TERMINATION SHALL BE METALLIC. ADDITIONAL NOTES TO RD335 1. MANHOLES SHALL BE CONCRETE. USE 18" HIGH CONE WITH 48" BARREL ONLY WHEN STANDARD CONE WILL NOT FIT, AND WHEN APPROVED BY THE ENGINEER. CITY OF EUGENE STANDARD DRAWING **AMENDMENT** STD STORM SEWER MANHOLE REVISIONS DESCRIPTION DATE

01/13

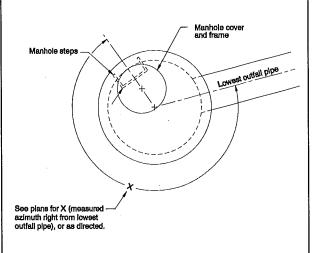
RD335(A)





See ODOT's QPL for acceptable alternate manhole steps and/or ladders, NOTE: No conflict with pipe align with available shelf.

DETAIL "B" MANHOLE STEPS (See general note 7)



PLAN

DETAIL "C" PRECAST CONICAL TOP OR PRECAST FLAT SLAB TOP AND MANHOLE STEPS ORIENTATION

(See general note 7)

GENERAL NOTES FOR ALL DETAILS:

- 1. All precast sections shall conform to requirements of ASTM C478.
- Standard precast manhole section diameter shall be 48". Use 42" if specified by the Engineer.
- All connecting pipes shall have a flexible, gasketted and unrestrained joint within 18° of manhole wall. Joint type varies with manufacturer.
- 4. See Std. Drg. RD344 for manhole base section.
- 5. Adjust 24" maximum.

RD336

6. All connecting pipes shall have a tracer wire, or approved alternate.

- Ladder with notched safety rall and removable extension is reqd. for manholes with depths between 24'-0" and 50'-0".
- 8. See Std. Drg. RD335 for details not shown.
- 9. See Std. Drg. RD356 for manhole covers and frames, manhole adjustment rings, etc.
- 10. Max. pipe diameter varies with pipe material.
- 11, See Std. Drg. RD342 for shallow manholes.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not

be used without consulting a

Registered Professional Engineer.

сада, воок но. _____ N/A _____

OREGON STANDARD DRAWINGS

STANDARD

STORM SEWER MANHOLE

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

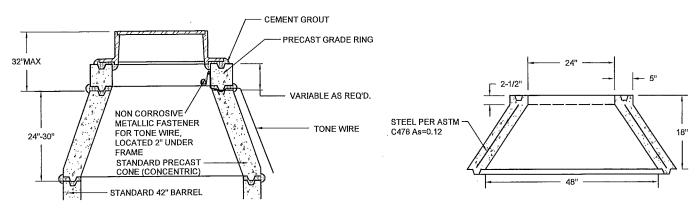
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DATE REVISION DESCRIPTION
04-2009 PREVISION DESCRIPTION
04-2019 PREVISION ADDESS NOTES
04-2011 PREVISION DESCRIPTION
04-

BASELINE REPORT DATE 23-JUL-2012

RD336

ADDITIONAL DETAILS



STANDARD CONE, STORMWATER

18" SHALLOW CONE, STORMWATER

GEOTEXTILE FABRIC 3/4"-0 AGGREGATE BASE 6" MIN. OR ABOVE HIGH WATER MARK

MANHOLE IN UNDEVELOPED AREAS

NOTES:

- 1. ALL JOINTS SHALL BE SEALED WITH APPROVED WATER TIGHT FLEXIBLE JOINT MATERIAL.
- WHERE MANHOLES ARE LOCATED IN NON-PERMANENT GRAVEL SURFACES: THE TOP OF THE CONE SHALL BE 18 INCHES BELOW THE SURROUNDING GRADE AND THE FRAME SHALL BE FLUSH. CONSTRUCT A 3/4"-O AGGREGATE BASE PAD, 4 INCHES THICK AROUND THE FRAME, SLOPING AWAY FROM THE COVER.
- 3. WHEN LOCATED IN DITCHES OR WET AREAS: THE FRAME SHALL BE LOCATED 6 INCHES ABOVE THE HIGH WATER MARK.

MODIFICATIONS TO RD336

- DELETE ALL REFERENCES TO STEPS. STEPS ARE NOT ALLOWED.
- 2. CONCENTRIC CONES SHALL BE USED UNLESS OTHERWISE SPECIFIED.
- 3. BARREL DIAMETER SHALL BE 42".
- 4. DELETE REFERENCES TO NON-SHRINK GROUT.
- 5. TOTAL PRECAST GRADE RING HEIGHT SHALL BE 12" MINIMUM AND 24" MAXIMUM.
- 6. NON-CORROSIVE FASTENERS FOR TRACER WIRE TERMINATION SHALL BE METALLIC.

ADDITIONAL NOTES TO RD336

- 1. MANHOLES SHALL BE CONCRETE.
- USE 18" HIGH CONE WITH 48" BARREL ONLY WHEN STANDARD CONE WILL NOT FIT, AND WHEN APPROVED BY THE ENGINEER.

CITY OF EUGENE STANDARD DRAWING AMENDMENT



STD STORM SEWER MANHOLE

	REVISIONS
DATE	DESCRIPTION
12/09	ADDED DETAIL
01/11	ADDED METALLIC
01/13	REVISED NOTES

RD336(A)

- 1. All precast sections shall conform to requirements of ASTM C478.
- Standard precast manhole section diameter shall be 48°. Use 42° if specified by the Engineer.
- All connecting pipes shall have a flexible, gasketted and unrestrained joint within 18° of manhole wall. Joint type varies with manufacturer.
- 4. See Std. Drg. RD344 for manhole base section.
- 5. Adjust 24" maximum.
- 6. All connecting pipes shall have a tracer wire, or approved alternate.

- Ladder with notched safety rall and removable extension is reqd. for manholes with depths between 24'-0" and 50'-0".
- 8. See Std. Drg. RD336 for details not shown.
- 9. See Std. Drg. RD356 for manhole covers and frames, manhole adjustment rings, etc.
- 10. Max. pipe diameter varies with pipe material.
- 11, See Std. Drg. RD342 for shallow manholes.
- 12. This detail limited to interior drop of 24".

See Std. Drgs. RD350 or RD352 for drop manhole details for drops in excess of 24".

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer. the current Oregon Standard Specifications
OREGON STANDARD DRAWINGS

STANDARD SANITARY SEWER MANHOLE

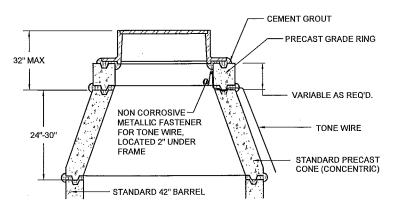
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DATE REVISION DESCRIPTION

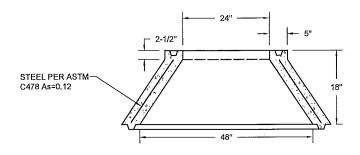
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ADDITIONAL DETAILS



STANDARD CONE, WASTEWATER



18" SHALLOW CONE, WASTEWATER

NOTES:

- 1. ALL JOINTS SHALL BE SEALED WITH APPROVED WATER TIGHT FLEXIBLE JOINT MATERIAL.
- 2. WHERE MANHOLES ARE LOCATED IN UNDEVELOPED AREAS: THE TOP OF THE CONE SHALL BE 36 INCHES BELOW SURROUNDING GRADE AND THE TOP OF THE FRAME SHALL BE 6 INCHES ABOVE THE GRADE.
- WHERE MANHOLES ARE LOCATED IN NON-PERMANENT GRAVEL SURFACES: THE TOP OF THE CONE SHALL BE 1.5 FEET BELOW THE SURROUNDING GRADE AND THE FRAME SHALL BE FLUSH. CONSTRUCT A 5'X5' HMAC PAD, 4 INCHES THICK AROUND THE FRAME, SLOPING AWAY FROM THE COVER.
- WHEN LOCATED IN DITCHES OR WET AREAS: THE FRAME SHALL BE LOCATED 6 INCHES ABOVE THE HIGH WATER MARK.

MODIFICATIONS TO RD338

- 1. DELETE ALL REFERENCES TO STEPS. STEPS ARE NOT ALLOWED.
- 2. CONCENTRIC CONES AND FLAT TOPS SHALL BE USED UNLESS OTHERWISE SPECIFIED.
- 3. BARREL DIAMETER SHALL BE 42".
- 4. TOTAL ADJUSTMENT RING HEIGHT SHALL BE 12" MINIMUM AND 24" MAXIMUM.
- 5. NON-CORROSIVE FASTENERS FOR TRACER WIRE TERMINATION SHALL BE METALLIC.
- 6. DELETE REFERENCES TO NON-SHRINK GROUT.

ADDITIONAL NOTES TO RD338

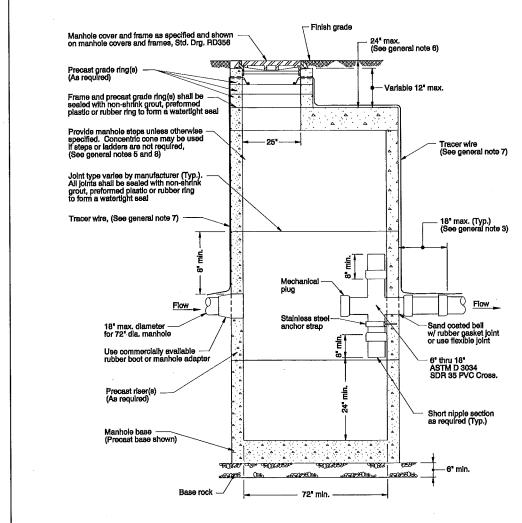
- 1. MANHOLES SHALL BE CONCRETE.
- USE 18" HIGH CONE WITH 48" BARREL ONLY WHEN STANDARD CONE WILL NOT FIT, AND WHEN APPROVED BY THE ENGINEER.

CITY OF EUGENE STANDARD DRAWING AMENDMENT



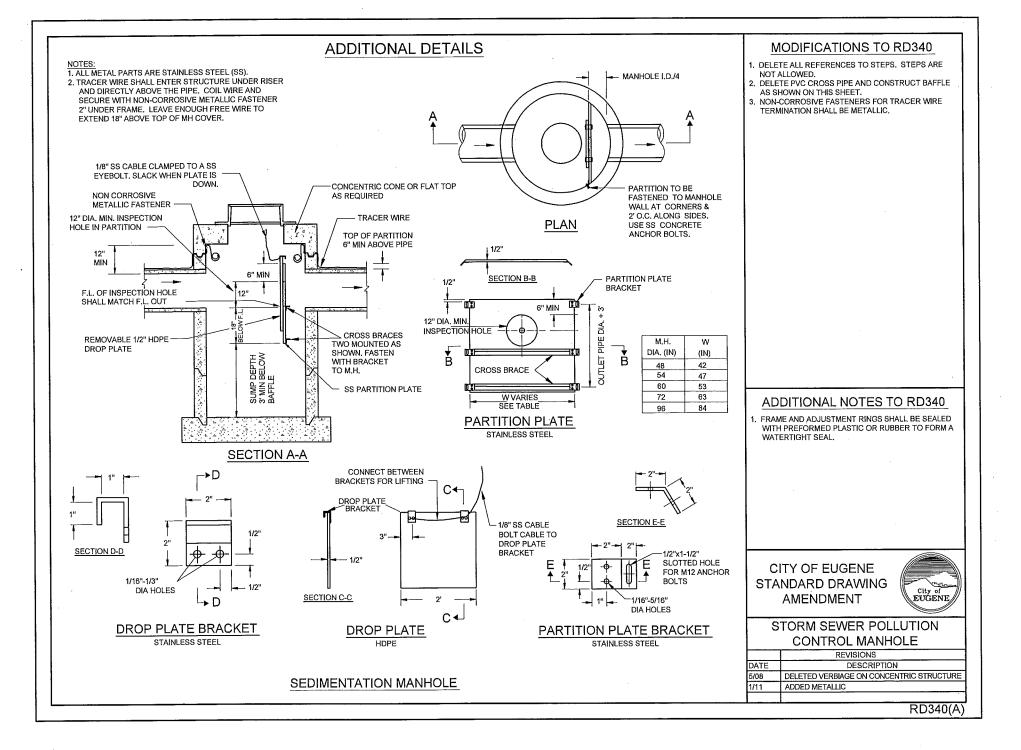
STD WASTEWATER MANHOLE

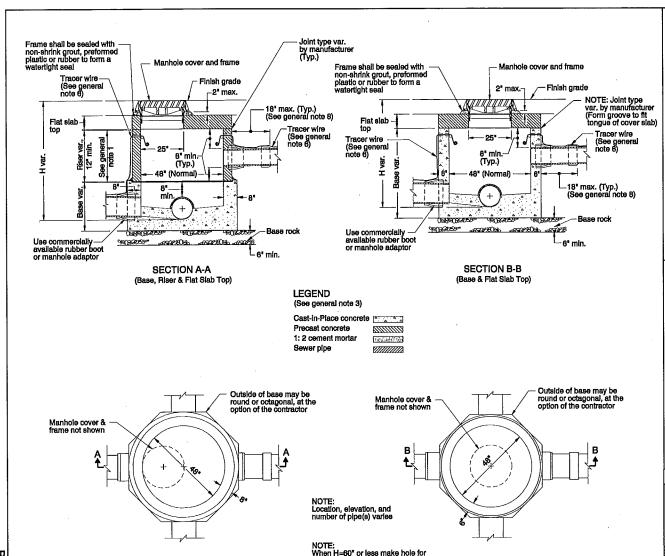
	REVISIONS	
DATE	DESCRIPTION	
5/08	ADDED TONE WIRE LOCATION	
1/11	ADDED METALLIC	
1/13	REVISED NOTES	



- All precast sections shall conform to requirements of ASTM C478.
- 2. Standard precast manhole section diameter shall be 72".
- All connecting pipes shall have a flexible, gasketted, and unrestrained joint within 18^s of manhole wall. Joint type varies with manufacturer.
- 4. See Std. Drg. RD344 for manhole base section, for details not shown.
- 5. See Std. Drg. RD336 for manhole steps details, and flat slab top orientation.
- 6. Adjust 24" max.
- 7. See Std. Drg. RD336 for tracer wire details.
- Ladder with notched safety rail and removable extension is reqd, for manholes with depths between 24'-0' and 50'-0".
- 9. Max. pipe diameter varies with pipe material.

BASELINE REPORT DATE 23-JUL-2012 салс, воок но. ____N/A_______ NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications **OREGON STANDARD DRAWINGS** The selection and use of this Standard Drawing, while designed STORM SEWER POLLUTION in accordance with generally CONTROL MANHOLE accepted engineering principles and practices, is the sole responsibility of the user and should not 2008 be used without consulting a REVISION DESCRIPTION 01-8011 REVISED & ADDED NOTES Registered Professional Engineer. REVISED DETAIL, REVISED & ADDED NOTES





frame in center of cover slab.

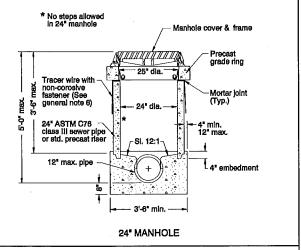
When H=42" or less omit steps.

TOP VIEW

(Base, Riser & Flat Slab Top)

TOP VIEW

(Base & Flat Slab Top)

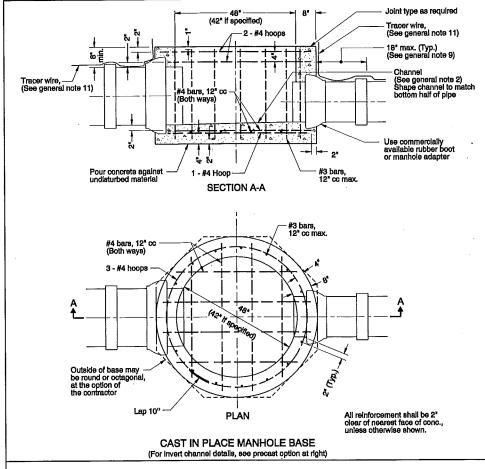


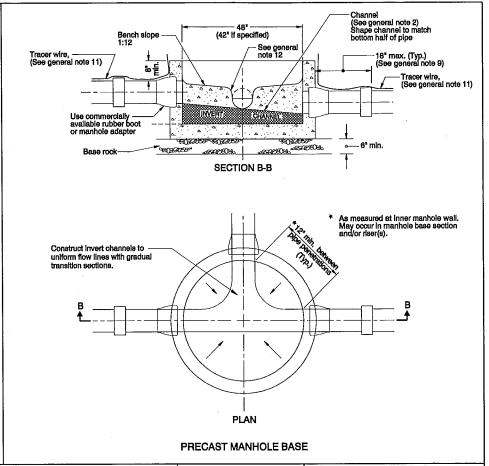
GENERAL NOTES FOR ALL DETAILS:

- Minimum length if laterals or connections are inserted; outside diameter of pipe + 17".
- 2. Use Section B-B when length of riser becomes less than minimum shown.
- 3. Base may be precast or cast-in-place.
- 4. All precast sections shall conform to the requirements of ASTM C478.
- 5. See Std. Drg. RD336 for manhole steps details, and flat slab top orientation.
- 6. See Std. Drg. RD336 for tracer wire details.
- 7. See Std. Drg. RD344 for manhole base section.
- All connecting pipes shall have a flexible, gasketted, and unrestrained joint within 18' of manhole wall. Joint type varies with manufacturer.
- 9. See Std. Drg. RD356 for manhole covers and frames.
- 10. All concrete shall be commercial grade concrete.
- 11. Max. pipe diameter varies with pipe material.

CALO, BOOK NON/A	BASEL	INE REPORT DATE 23-JUL-2012		
The selection and use of this	NOTE:	All material and workmanehip shall be in accordance with the current Oregon Standard Specifications		
	OREGON STANDARD DRAWINGS			
Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole respon-	SHALLOW MANHOLES			
sibility of the user and should not	1	2008		
be used without consulting a	DATE	REVISION DESCRIPTION		
Registered Professional Engineer.	01-8011	REVISE DETAILS, REVISED & ADDED HOTES		
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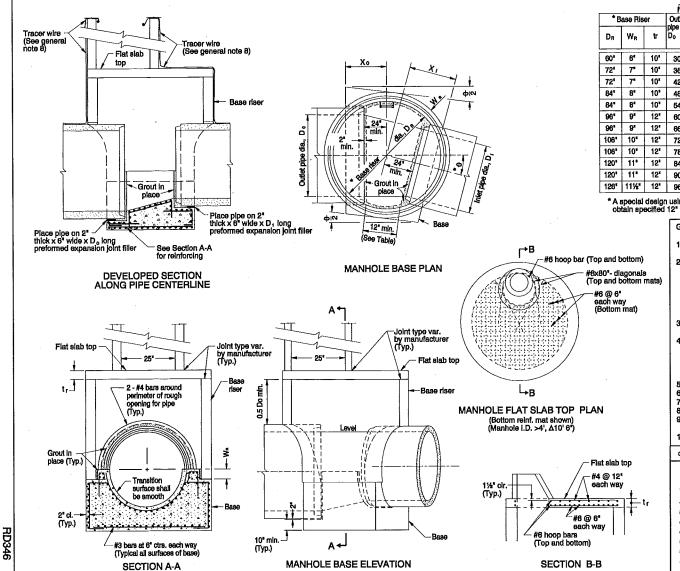


- 1. All concrete shall be commercial grade concrete.
- 2. Channels shall be constructed to provide smooth slopes and radii to outlet pipe.
- 3. Bases may be precast or cast in place.
- 4. Max. pipe diameter varies with pipe material.
- 5. Use on 42" and 48" diameter manhole.
- Extend pipe into manhole and grout smooth. Pipe(e) may extend 2" max, beyond the interior manhole wall.

- 7. Location, elevation, and number of pipe(s) varies.
- 8. All precast sections shall conform to the requirements of ASTM C478.
- All connecting pipes shall have a flexible, gasketted and unrestrained joint within 18° of manhole wall. Joint type varies with manufacturer.
- 10. See Std. Drg. RD336 for manhole steps details.
- 11. See Std. Drg. RD336 for tracer wire details.
- 12. At spring line of pipe, extend channel up to crown line on 12:1 batter.

23-JUL-2012 CALC, BOOK NO. ___N/A_____ BABELINE REPORT DATE . _ . NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications **OREGON STANDARD DRAWINGS** The selection and use of this Standard Drawing, while designed in accordance with generally STANDARD MANHOLE BASE SECTION accepted engineering principles and practices, is the sole responsibility of the user and should not 2008 be used without consulting a 07-8010 REVISED NOTES
07-8018 REVISED DETALS & NOTES Registered Professional Engineer.

	MODIFICATIONS TO RD344
	BARRELS SHALL BE 42". A HALF PIPE IS ALLOWABLE AS AN ALTERNATE TO A FORMED CHANNEL FOR MANHOLE BASES CONSTRUCTED OVER EXISTING PIPE. DELETE NOTE 10.
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	ADDITIONAL NOTES TO RD344
·	
	CITY OF EUGENE
	STANDARD DRAWING AMENDMENT City of EUGENE
	AMENDMENT
	STD 48" DIA. M.H. BASE SECTION
	REVISIONS
	DATE DESCRIPTION 3/07 NOTE CHANGES
	2/12 NOTE CHANGES
	RD344(A)



Inlet pipe dia. Di when Di > Do

* Base Riser		Outlet *Theta.		Base Xo	Base X ₁ when D ₁ < D ₀			
Da	W _R	tr	plpe dla D₀ D₁	max when D _i ≃ D _o	X:=Xo when D:=Do	D ₁ =(D ₀ -6)	D _i =(D ₀ -12)	D ₁ =(D ₀ -18)
60°	6ª	10".	301	75 ⁰	29'	32*	33"	34%"
72"	7*	10°	36'	67°	33"	38"	37%*	391/4"
721	7"	10°	42"	60°	33"	36"	37%*	391/1
84"	81	10°	48*	54 ⁰	36"	39*	41*	43%"
84"	8,	10"	54"	49°	36*	39"	41 ^x	43%'
96"	9×	12"	60°	45 ⁰	39*	42"	45%"	47%*
96°	8,	12"	66'	42 ⁰	39 ^x	42"	45%"	47%
108"	10"	12"	72'	39°	42"	45"	48%"	511/2"
108°	10"	121	78"	38°	42"	45"	48%"	511/4"
120"	11"	121	84"	34 ⁰	44"	48"	51%"	54%"
120'	11"	12 ^x	901	320	44"	48°	51%"	54%"
126"	111/2"	12*	96*	30°	45"	51"	54%"	581/4"

* A special design using a larger Base Riser diameter D may be required to obtain specified 12* min. dimension when + angle exceeds + n max.

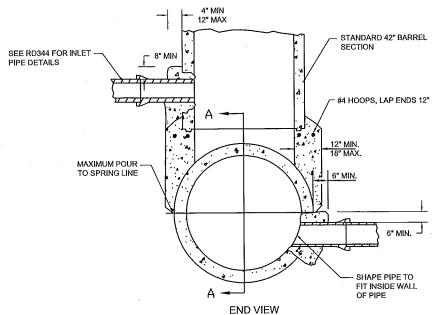
GENERAL NOTES FOR ALL DETAILS:

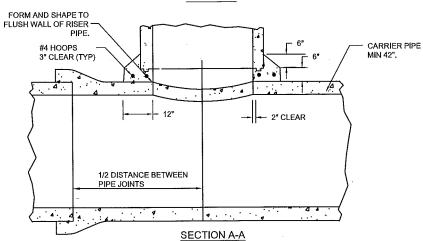
- All concrete shall be Class 4000. All precast sections shall conform to requirements of ASTM C478.
- All reinforing steel shall conform to ASTM Specification A706 or AASHTO M31 (ASTM A815), Grade 60. The following splice lengths shall be used (unless shown otherwise):

- All reinforcement shall be placed 2" clear of the nearest face of the concrete unless shown otherwise.
- 4. Eccentric reducing cones or eccentric reducing flat slabs designed in accordance with AASHTO M199 shall be placed on top of the base riser as required by the contract plans. Eccentric reducing flat slabs shall be designed to support a load of 120 lb/fit in addition to the dead load of the slab, the risers above the slab, and the earth overburden above the slab.
- 5. Base riser to be pre-cast unless otherwise shown on the plans.
- 6. Cast-in-Place concrete, shown thus:
- 7. See Std. Drg. RD336 for manhole steps details, and flat slab top orientation.
- 8. See Std. Drg. RD336 for tracer wire details.
- Ladder with notched safety rail and removable extention is reqd, for manholes with depths between 24'-0" and 50'-0".
- Max. pipe diameter varies with pipe material.

CALC. BOOK NO. _________ NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications **OREGON STANDARD DRAWINGS** The selection and use of this Standard Drawing, while designed In accordance with generally LARGE PRECAST MANHOLE accepted engineering principles and practices, is the sole responsibility of the user and should not 2008 be used without consulting a REVISION DESCRIPTION REVISED & ADDED NOTES
REVISED DETAILS & ADDED NOTE Registered Professional Engineer.

ADDITIONAL DETAILS





SADDLE TYPE MANHOLE

MODIFICATIONS TO RD346

- DELETE ALL REFERENCES TO STEPS. STEPS ARE NOT ALLOWED.
- NOT ALLOWED.
 2. CONCENTRIC CONES SHALL BE USED UNLESS OTHERWISE SPECIFIED.

ADDITIONAL NOTES TO RD346

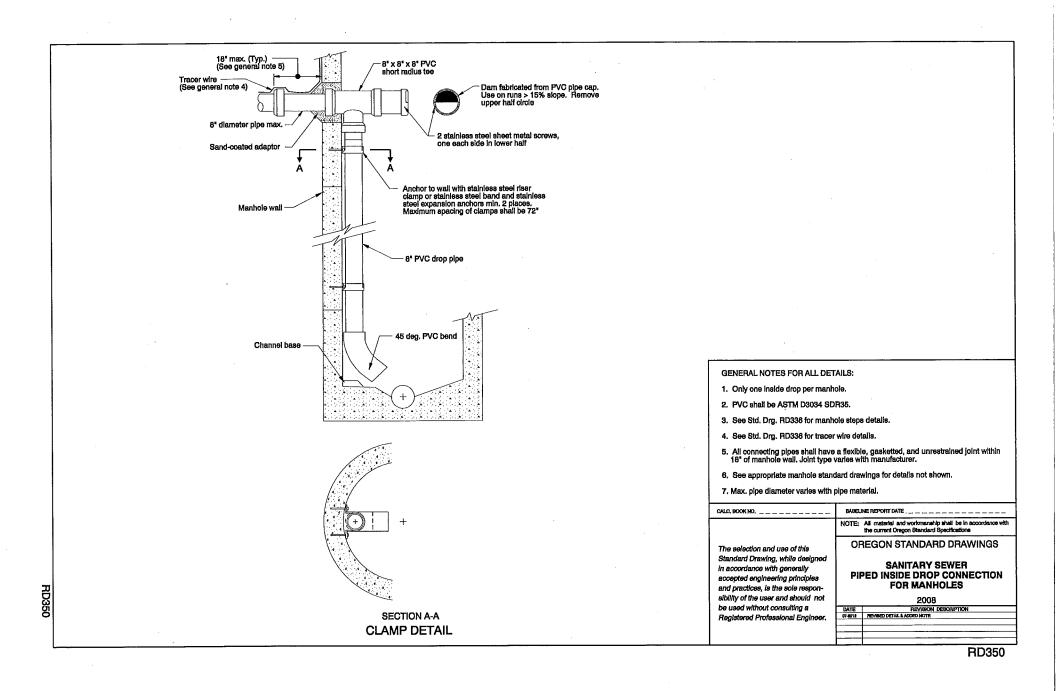
CITY OF EUGENE STANDARD DRAWING AMENDMENT



LARGE PRECAST MANHOLE

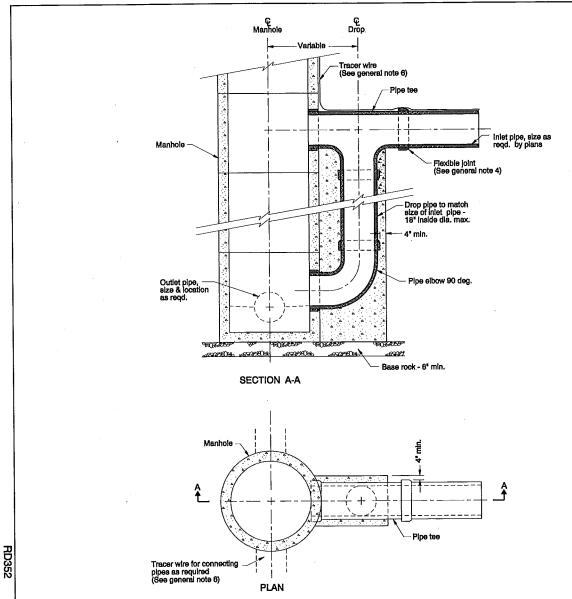
	REVISIONS
DATE	DESCRIPTION
4/06	STEP NOTE REV.

RD346(A)



MODIFICATIONS TO RD350 DELETE "SAND COATED ADAPTER". PROVIDE A WATER TIGHT SEAL WITH COMMERCIALLY AVAILABLE RUBBER BOOT. FOR RIGID PIPE PROVIDE GASKETED JOINT A MAX. 2' OUTSIDE MANHOLE. 2. DELETE DAM AND CAP. 3. FASTENER STRAPS SHALL BE LOCATED DIRECTLY BELOW BELL. ADDITIONAL NOTES TO RD350 1. ONLY ONE INSIDE DROP PER MANHOLE. CITY OF EUGENE STANDARD DRAWING **AMENDMENT** SANITARY SEWER PIPED INSIDE DROP CONNECTION FOR MANHOLES REVISIONS DESCRIPTION DATE NOTE CHANGE NOTE CHANGE

RD350(A)

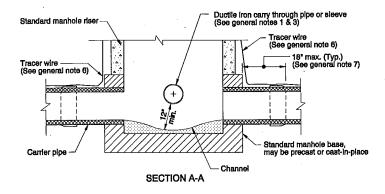


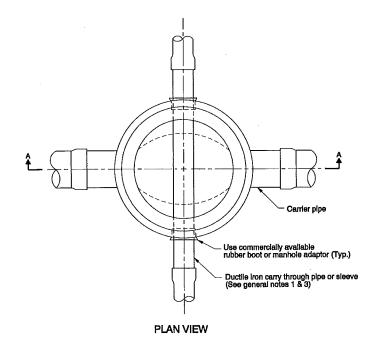
- 1. See appropriate manhole standard drawings for details not shown.
- 2. Concrete encasement shall be commercial grade concrete.
- 3. Pipe material as required by plans.
- 4. All connecting pipes shall have a flexible, gasketted, and unrestrained joint within $6^{\prime\prime}$ of concrete encasement.
- 5. See Std. Drg. RD336 for manhole steps details.
- 6. See Std. Drg. RD336 for tracer wire details.
- 7. Max. pipe diameter varies with pipe material.

	NOTE:	All material and workmanahip shall be in accordance with the current Oregon Standard Specifications	
The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole respon- sibility of the user and should not	OF	REGON STANDARD DRAWINGS	
	OUTSIDE DROP MANHOLES		
	2008		
be used without consulting a	DATE	REVISION DESCRIPTION	
Registered Professional Engineer.	07-8013	REVISED DETAIL, NEVISED & ADDED NOTES	

MODIFICATIONS TO RD352
CHANGE 4" MIN. TO 8" MIN. DELETE COMMERCIAL GRADE CONCRETE. FULLY ENCASE DROP STRUCTURE WITH A MINIMUM OF 8" OF CLSM.
ADDITIONAL NOTES TO RD352
PROVIDE WATER TIGHT SEALS AT ALL CONNECTION POINTS.
CITY OF EUGENE STANDARD DRAWING
AMENDMENT EUGENE
OUTSIDE DROP MANHOLES REVISIONS DATE DESCRIPTION
4/05 RD352(A)

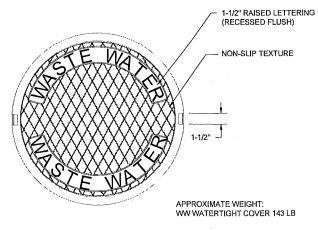
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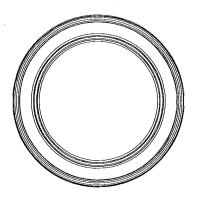


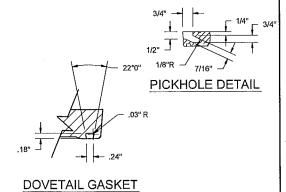


- 1. Carry-through pipe or sleeve shall be ductile iron, class as specified.
- This manhole design shall be used only as directed by the engineer to mitigate unavoidable grade conflicts.
- 3. No joints allowed on the carry-through pipe or sleeve inside the manhole.
- 4. See Std. Drg. RD344 for manhole base section.
- 5. See Std. Drg. RD336 for manhole steps details.
- 6. See Std. Drg. RD336 for tracer wire details.
- All connecting pipes shall have a flexible, gasketted, and unrestrained joint within 18* of manhole wall. Joint type varies with manufacturer.
- 8. See appropriate manhole standard drawings for details not shown.
- 9. Max. pipe diameter varies with pipe material.

The selection and use of this Standard Drawling, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.



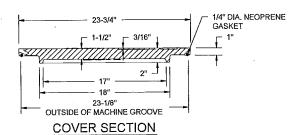




GROOVE DETAIL

WATERTIGHT WW COVER FACE

COVER BOTTOM

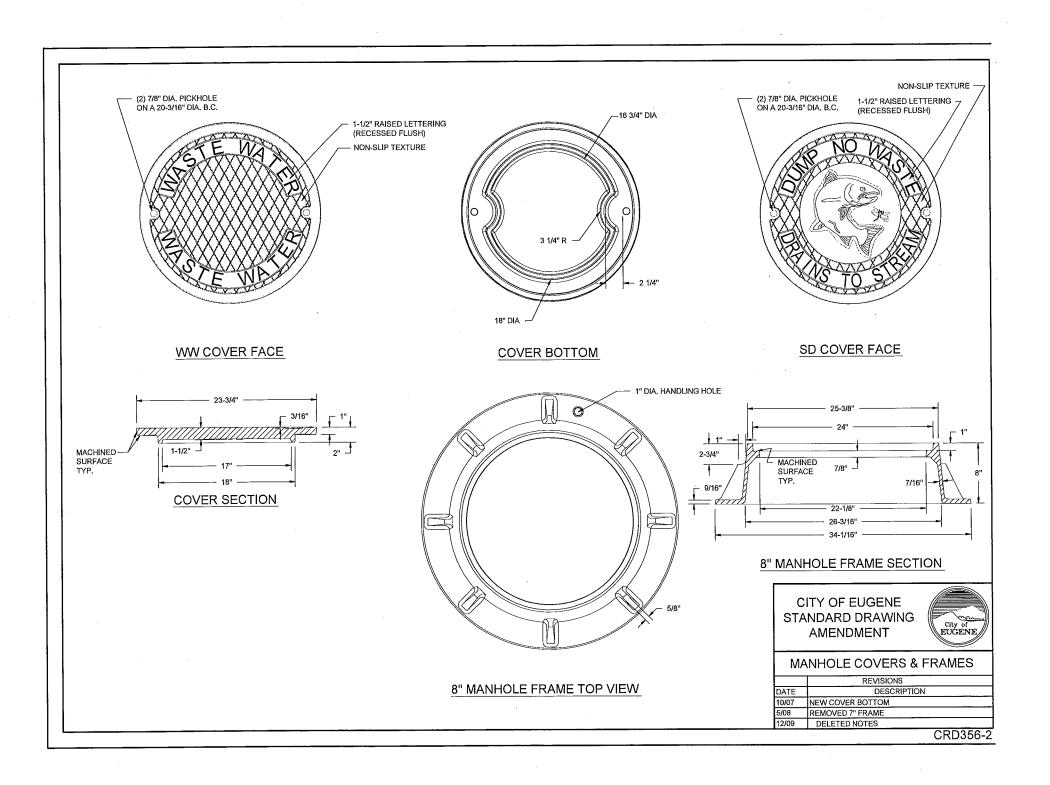


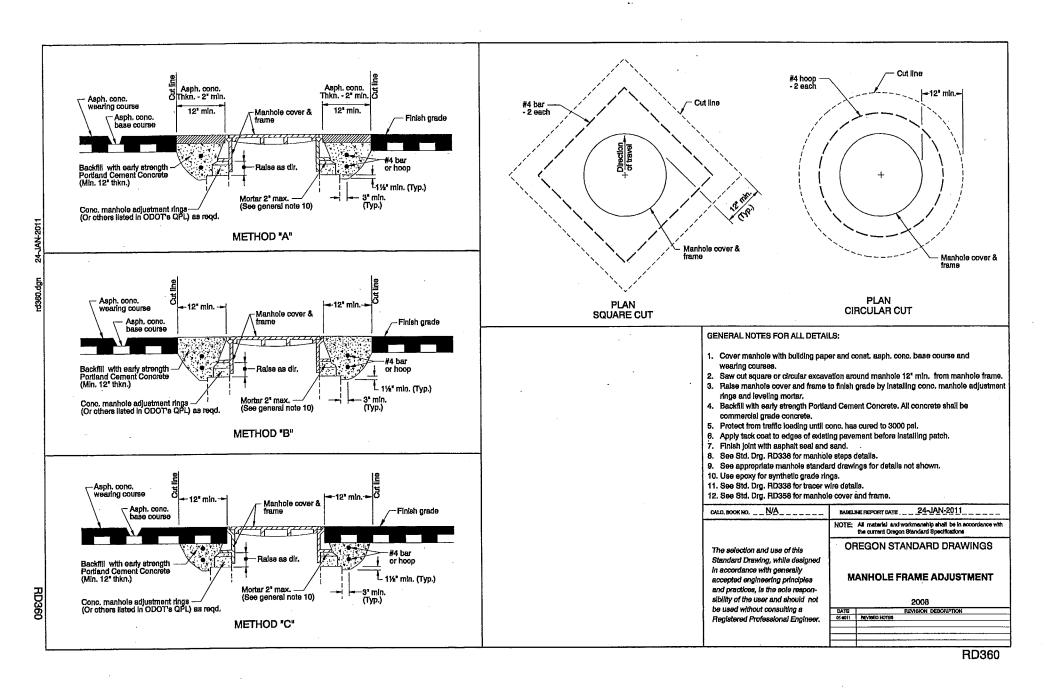




		_
	REVISIONS	
DATE	DESCRIPTION	_
3/07	WATER TIGHT LID - WW	_
5/08	EDITED NOTE 1	_
12/09	DELETED NOTES	

CRD356-1

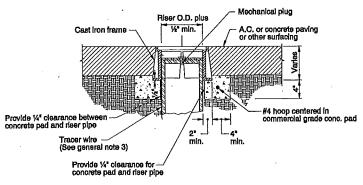




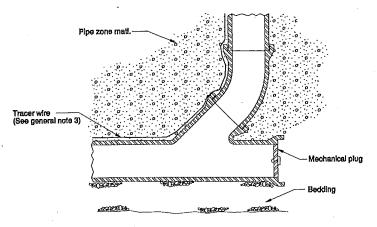
	MODIFICATIONS TO RD360
	1. USE METHOD "B" AND A CIRCULAR CUT.
·	ADDITIONAL NOTES TO RD360
	ADDITIONAL NOTES TO NOSOO
*	
	CITY OF EUGENE
	STANDARD DRAWING
	AMENDMENT Eugene
	MANHOLE FRAME ADJUSTMENT
	REVISIONS
	DATE DESCRIPTION 12/09 DELETED NOTES 2 AND 3
	1/11 MODIFIED NOTES 2/12 MODIFIED NOTES
	1/13 DELETED NOTE 2. RD360(A



CAST IRON COVER



CAST IRON FRAME



CLEANOUT

GENERAL NOTES FOR ALL DETAILS:

- 1. Casting shall meet H20 load requirement.
- 2. Provide riser size and material to match carrier pipe.
- 3. See Std. Drg. RD336 for tracer wire details.
- 4. All concrete shall be commercial grade concrete.

CALO, BOOK NO.

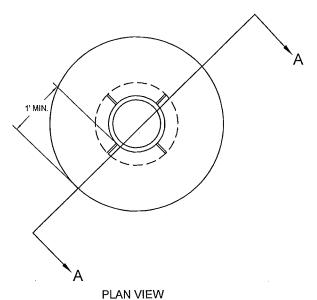
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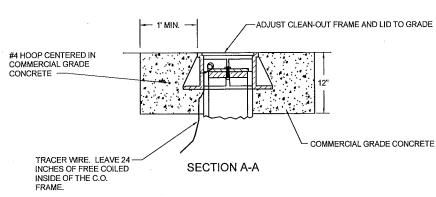
NOTE: All material and workmaneith ethall be in accordance with the current Oregon Blandard Bpecifications

OREGON STANDARD DRAWINGS

Standard Drawling, while deeligned in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

ADDITIONAL DETAILS





CLEANOUT ADJUSTMENT

MODIFICATIONS TO RD362

1. CLEAN OUT RISER TO BE 8" MAX.

ADDITIONAL NOTES TO RD362

- IF LOCATED IN SIDEWALK OR OFF-STREET BIKE/PED PATH, LID TO BE COATED WITH TEXTURED NON-SKID SURFACING. 29-E-EPOXY, DECK AND FLOOR TEXTURED COATING, FIRM FOOT, OR APPROVED EQUAL. COLOR TO BE CONCRETE GRAY.
- 2. IF THE CLEAN OUT IS LOCATED IN A NON-PAVED AREA, PROVIDE A 26"X26"X6" SQUARE COMMERCIAL GRADE CONCRETE PAD, OR 26" DIAMETER X 6" DEEP CIRCULAR PAD, AROUND IT.

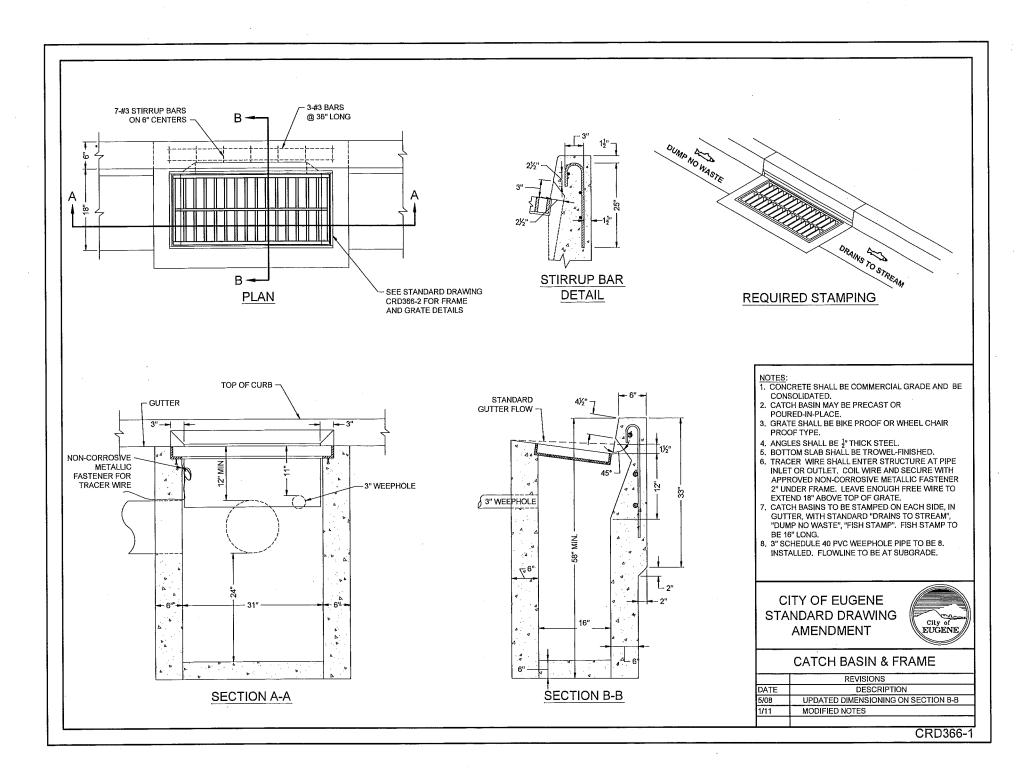
CITY OF EUGENE STANDARD DRAWING AMENDMENT

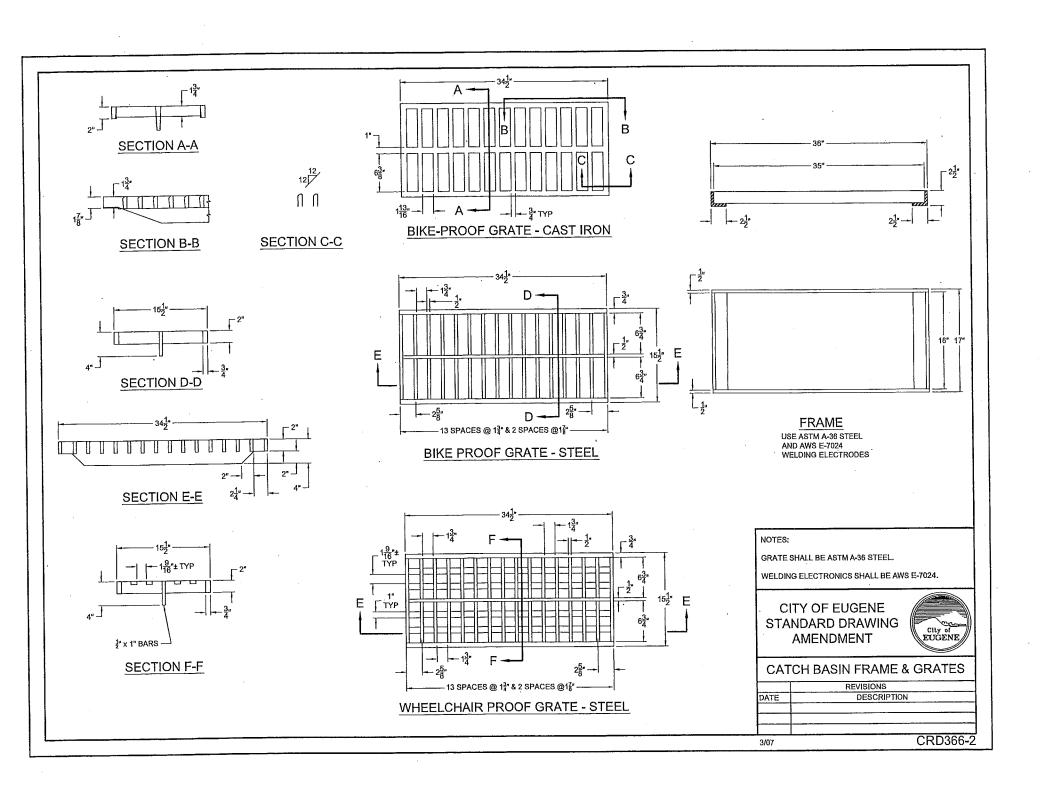


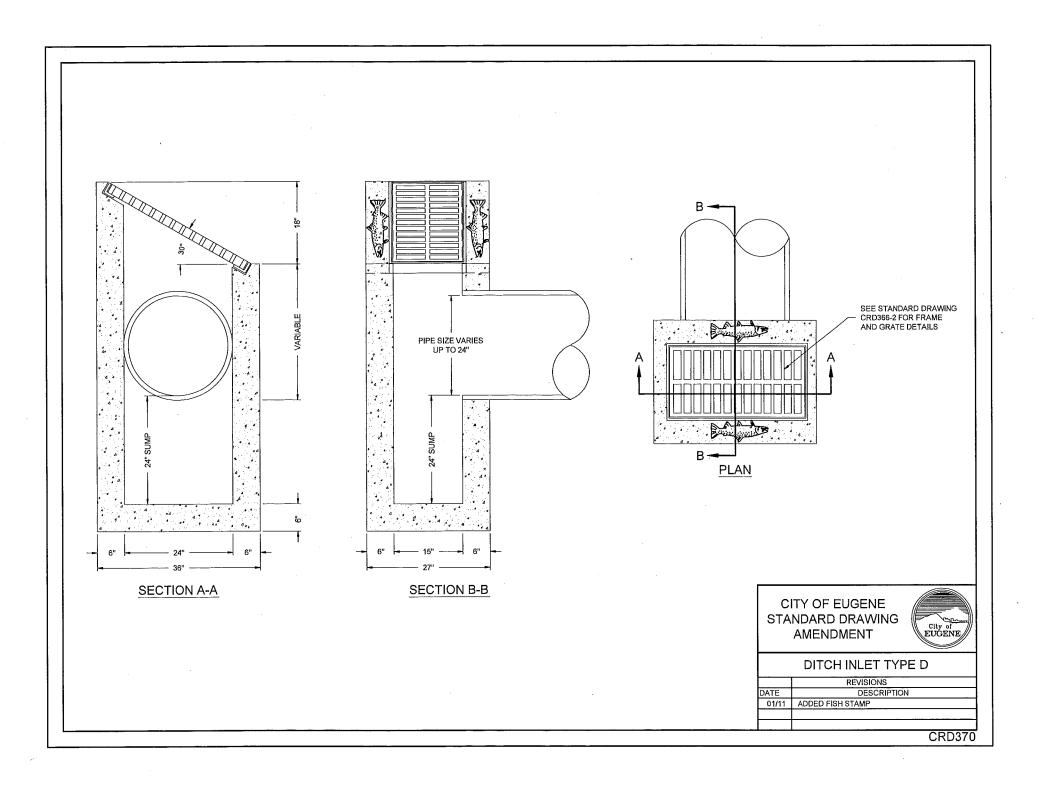
SANITARY CLEANOUT

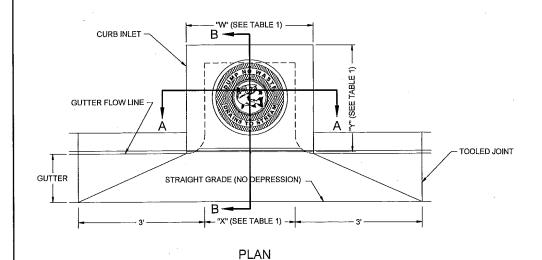
1		
	REVISIONS	
DATE	DESCRIPTION	
5/08	NOTE REVISION	
01/09	ROUND ADJUST	
01/11	MODIFIED DETAIL	
02/12	MODIFIED DETAIL	

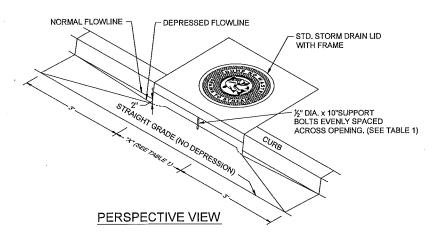
RD362(A)

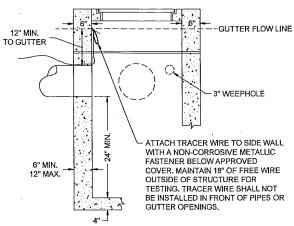




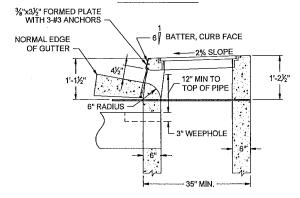








SECTION A-A



SECTION B-B

NOTES: 1. ALL METAL PARTS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION.

- 2. CURB INLET TOP & LID SHALL BE PRECAST AND REINFORCED AS REQUIRED TO WITHSTAND CURRENT MAXIMUM ALLOWABLE HIGHWAY LOADS.
- 3. BASE FOR INLET MAY BE PRECAST OR POURED IN PLACE.
- 4. INLET LID TO BE COATED WITH TEXTURED NON-SKID SURFACING IF IN SIDEWALK OR OFF STREET BIKE/PED PATH.
- 5. CONCRETE TO BE COMMERCIAL GRADE, AND CONSOLIDATED.
- 6. 3" SCH 40 PVC WEEPHOLE LOCATED IN AGG. BASE AT SUBGRADE ELEVATION.

TABLE 1

TYPE	"X"	"₩"	"Y"	NO. OF SUP- PORT BOLTS
2½ A	2'-6"	3'-6"	3'-6"	1
4 A	4'-0"	5'-0"	3'-0"	2

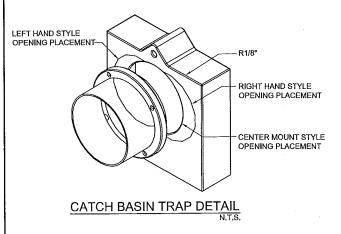
CITY OF EUGENE STANDARD DRAWING AMENDMENT

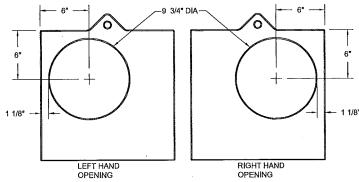


CONCRETE INLETS

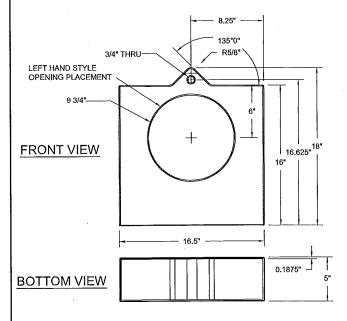
	REVISIONS	
DATE	DESCRIPTION	
5/08	UPDATED TABLE 1	
1/11	MODIFIED DIMENSIONS & NOTE	

CRD372





CATCH BASIN TRAP - MOUNT BOX DETAIL-OFFSET



CATCH BASIN TRAP - MOUNT BOX DETAIL-CENTERED N.T.S

CITY OF EUGENE STANDARD DRAWING AMENDMENT

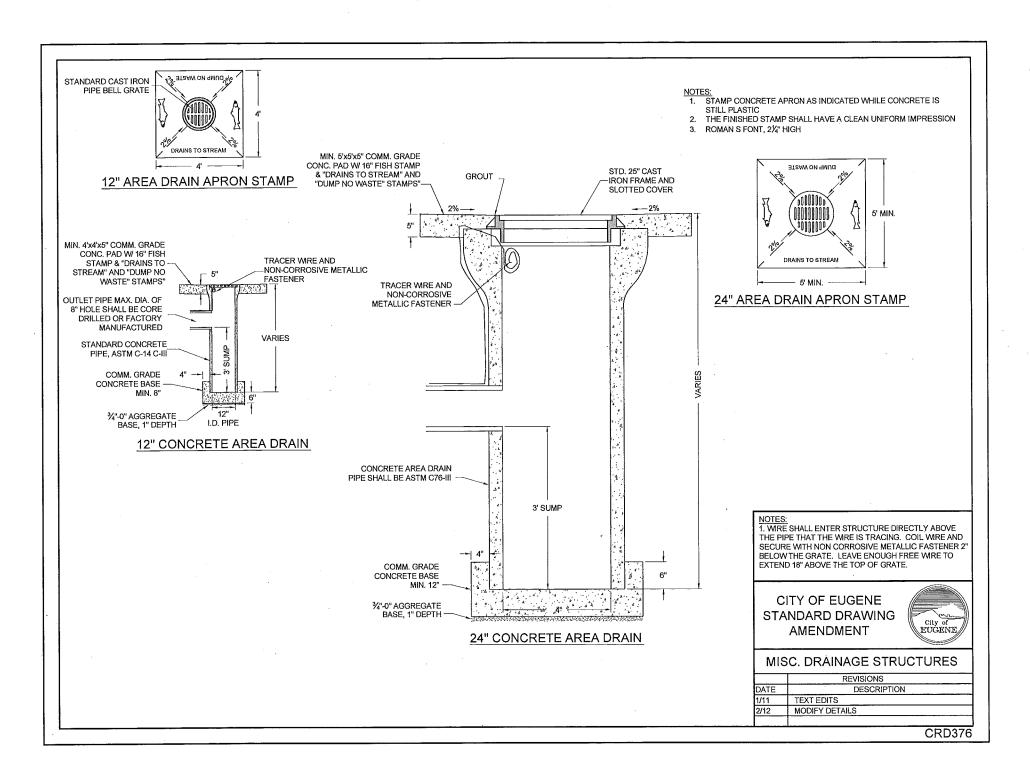


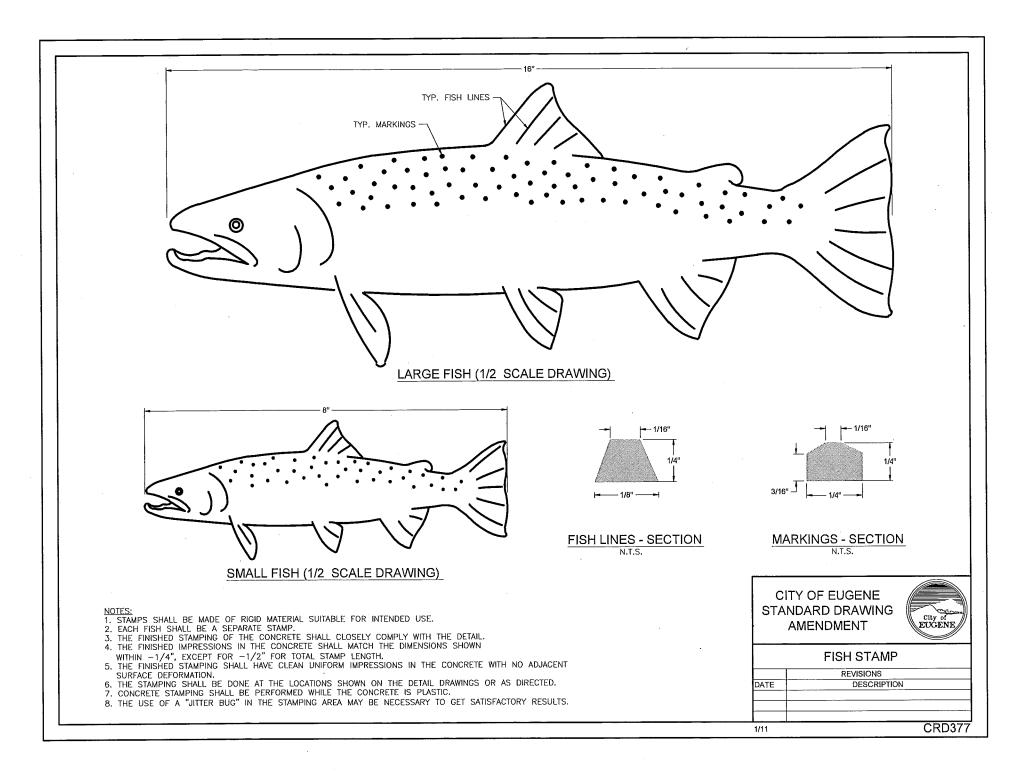
CATCH BASIN TRAP

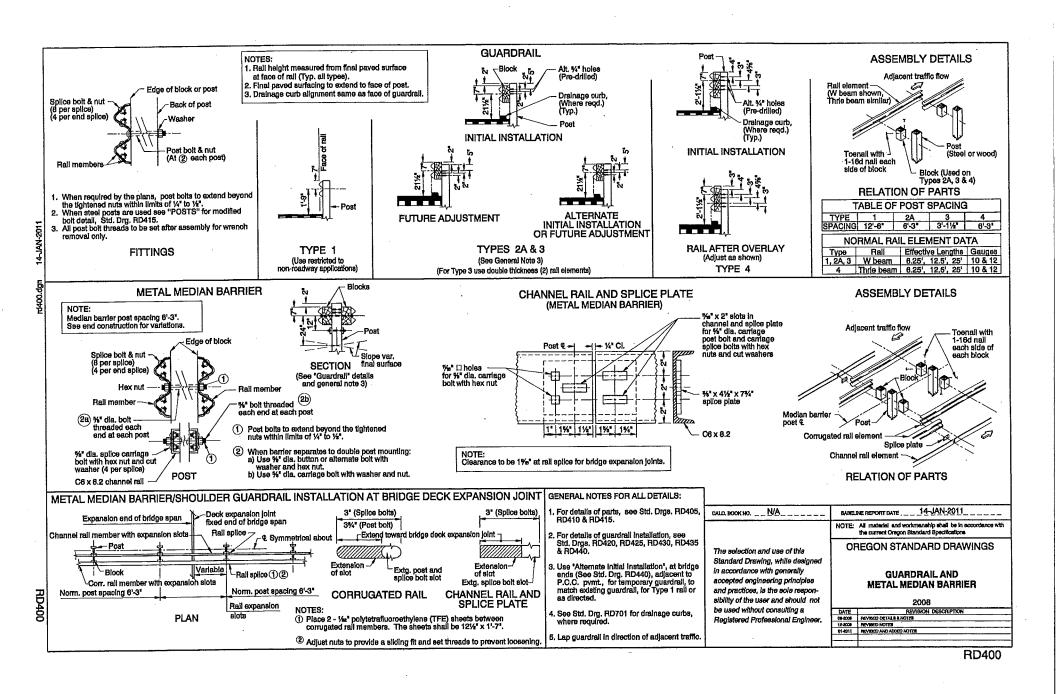
REVISIONS
DATE DESCRIPTION

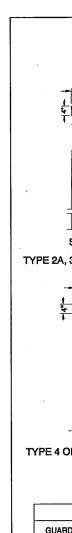
5/08

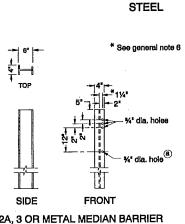
CRD375



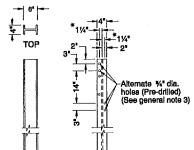










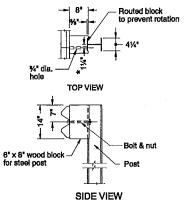


TYPE 4 OR TYPE 4 (TRANSITION) POST

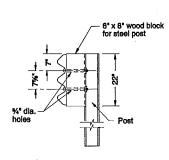
(a) Lowest hole(s) required only where channel rall is to be installed. Drill 12" below top 1/4" hole(s) used. (See general note 4)

	GUARDRAIL P	OST TABLE		
GUARDRAIL	POST SIZE POST LENG		POST LENG	
TYPE	WOOD	STEEL *	WOOD	STEEL
1	6" x 8" or 8" x 8"	_	6'-0"	_
2A	6' x 8' or 8' x 8"	W6 x 9	6'-0"	6'-6"
3	8' x 8'	W8 x 9	6'-0"	6'-6"
Metal median barrier	8" x 8"	W6 x 9	6' 6"	6'-6"
4	6" x 8" or 8" x 8"	W6 x 9	7'-0"	7'-0*
4 (Transition)	8" x 8"	W8 x 9	6'-0"	6'-9"

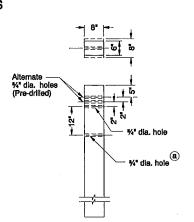
POSTS



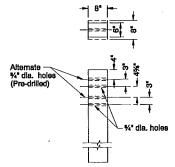
TYPE 2A, 3 OR METAL MEDIAN BARRIER WOOD BLOCK FOR STEEL POST



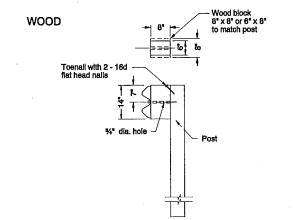
TYPE 4 OR TYPE 4 (TRANSITION) BLOCK (Routing not required)



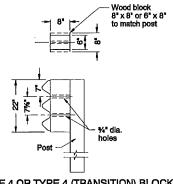
TYPE 1, 2A, 3 OR METAL MEDIAN BARRIER



TYPE 4 OR TYPE 4 (TRANSITION) POST



TYPE 2A, 3 OR METAL MEDIAN BARRIER



TYPE 4 OR TYPE 4 (TRANSITION) BLOCK

BASELINE REPORT DATE ______13-JAN-2010

GENERAL	NOTES FOR	ALI	DETAIL C.
GENERAL	NOTES FOR	ΑЩ	DETAILS:

- 1. See Std. Drg. RD400 for alternate hole useage requirements.
- For assembly, Installation, and appurtenance details, see Std. Drgs. RD400, RD410, RD415, RD420, RD425, RD430, RD435, RD440.
- See Bridge Drgs. for bridge transition guardrall post & block requirements. Multiple holes are not required in bridge transition rail posts.
- 4. Posts and blocks to be pre-drilled for the Intended guardrali installation.
- 5. Post and block dimensions are nominal.
- 6. Steel posts are shifted to accomodate bolt holes.

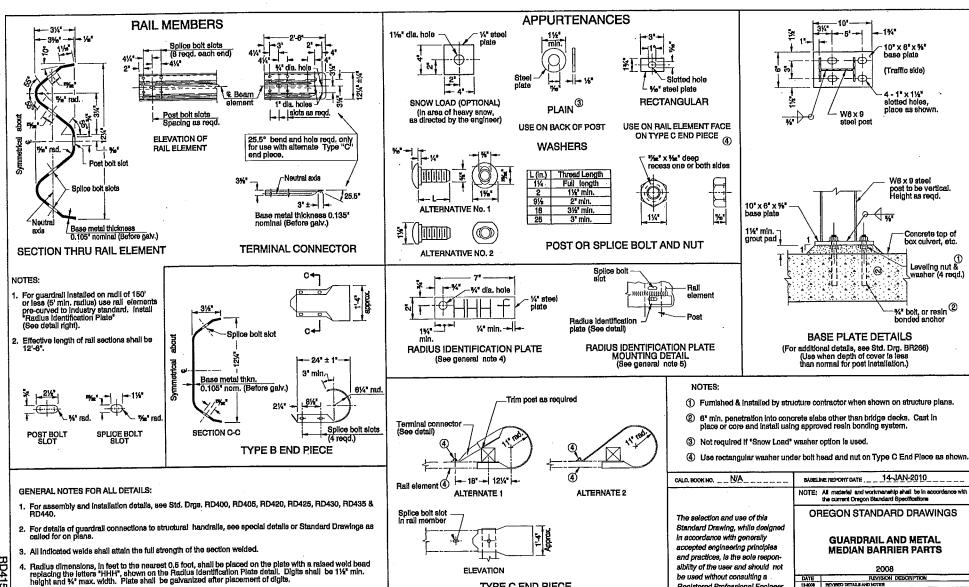
The selection and use of this Standard Drawing, while designed In accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

CALC. BOOK NO. __NA____

OREGON STANDARD DRAWINGS GUARDRAIL AND METAL MEDIAN BARRIER PARTS

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

REVISION DESCRIPTION REVISED DETAILS & HOTES 12-2000 NEVISED DETAILS & NOTES



TYPE C END PIECE

(For details not shown, see Type B End Piece)

RD415

The guardrail radius identification plate is to be mounted on the back side of the rail element with the lowest spilce bolt nearest the P.C. of the guardrail radius.

REVISION DESCRIPTION

Registered Professional Engineer.

10" x 8" x %"

(Traffic side)

- 1" x 11/4"

place as shown.

W8 x 9 steel post to be vertical. Height as reqd.

Concrete top of

box culvert, etc.

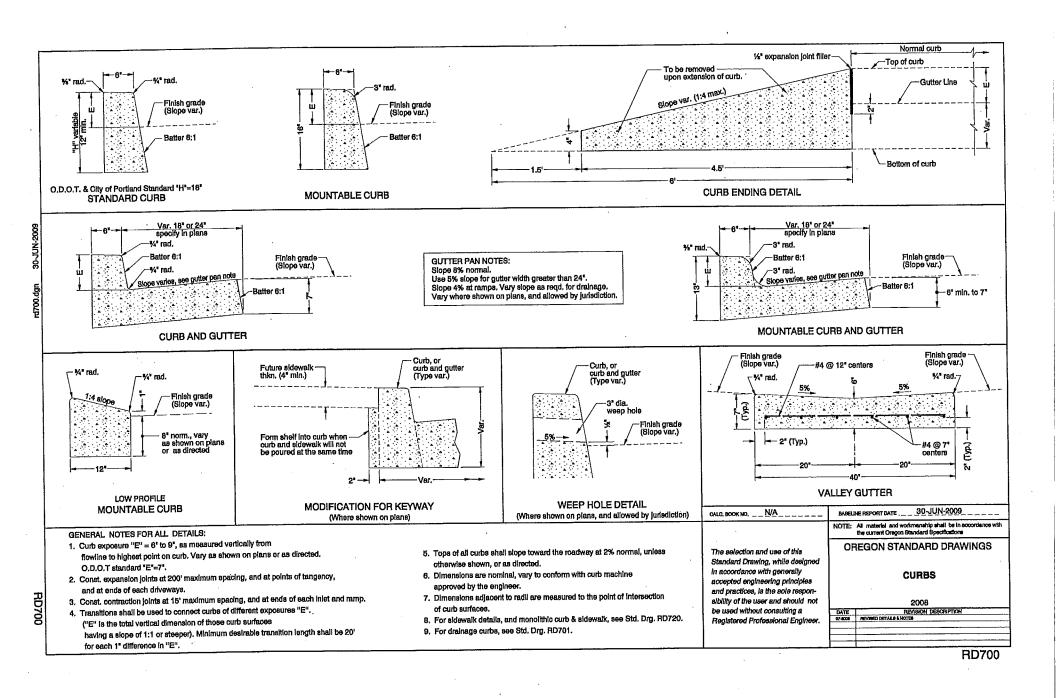
Leveling nut &

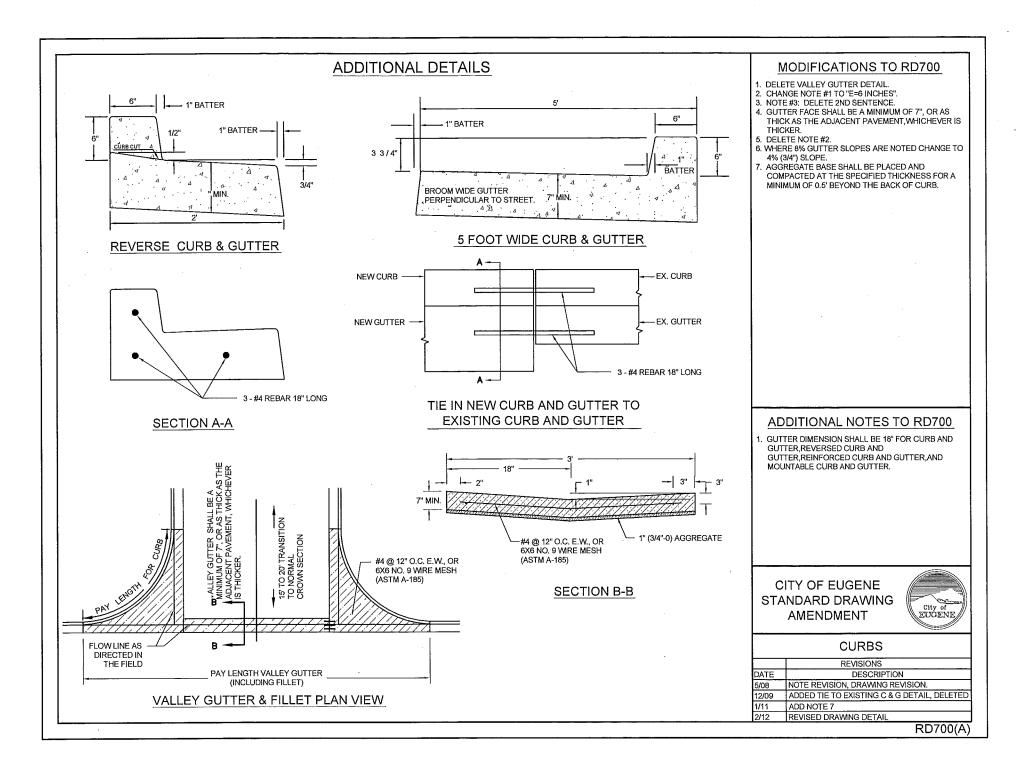
washer (4 reqd.)

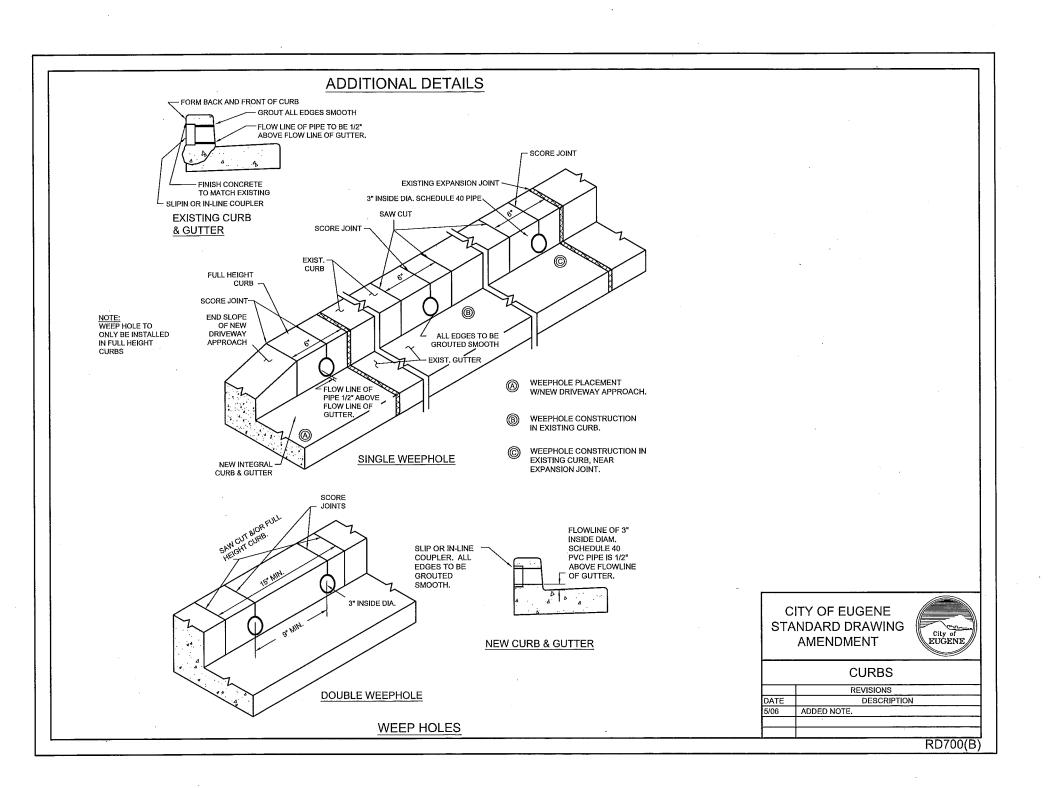
¼* bolt, or reain ^② bonded anchor

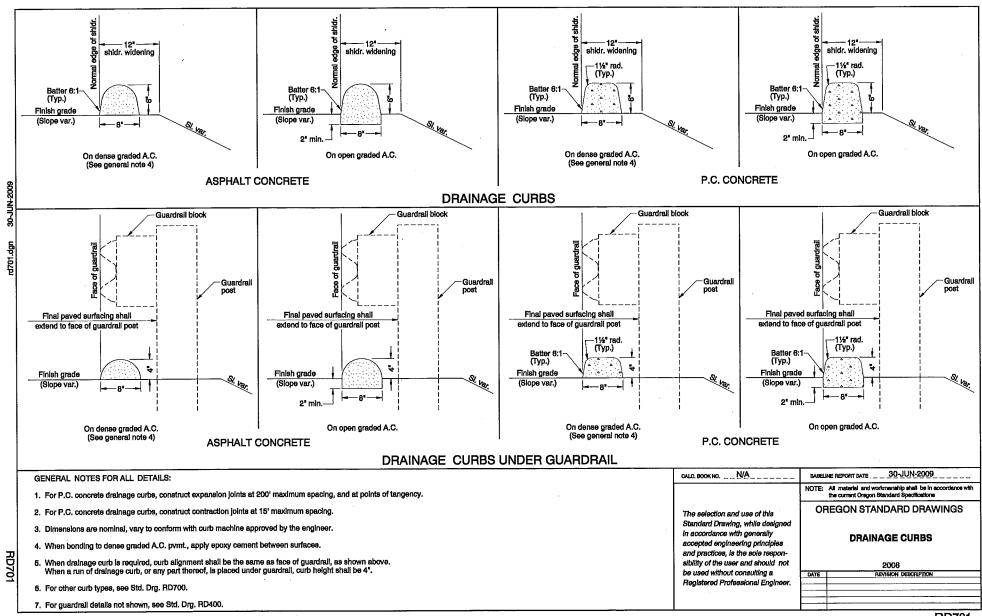
slotted holes,

base plate

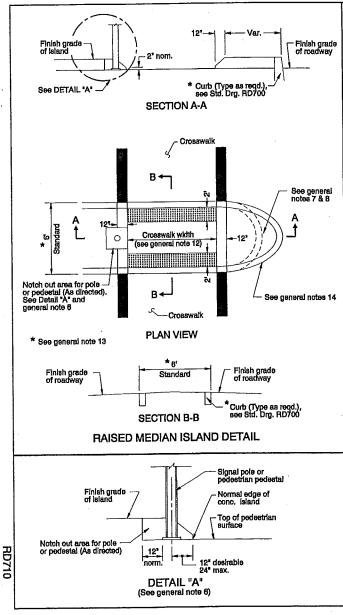


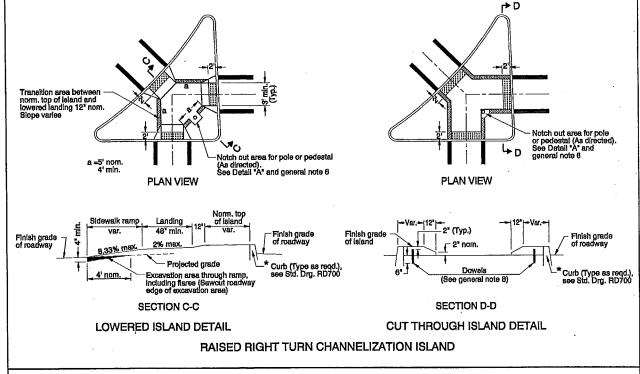






RD701





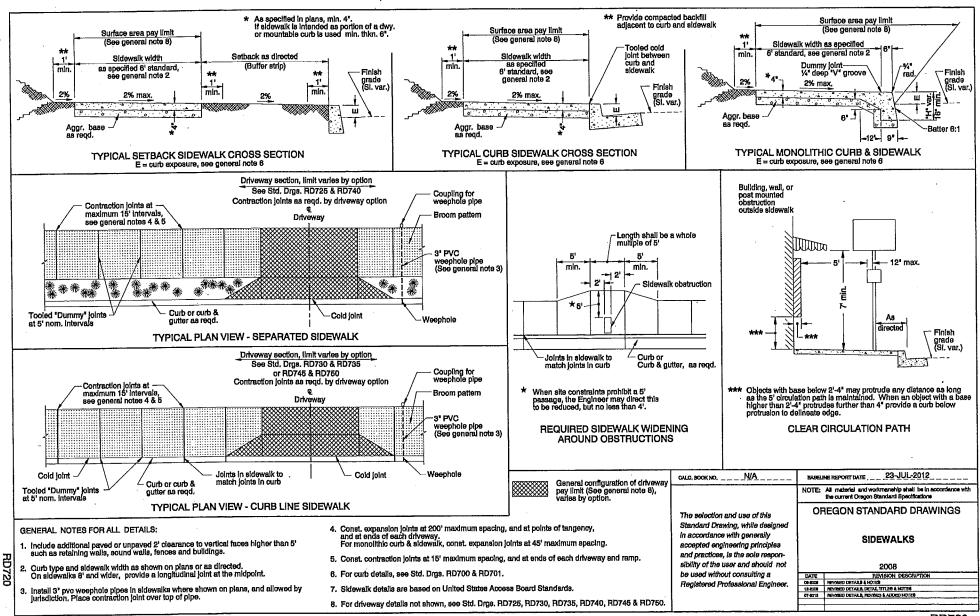
GENERAL NOTES FOR ALL DETAILS:

- Accessible route islands are based on United States Access Board Standards.
- Place truncated dome detectable warning surface in the lower 2' adjacent to traffic of throat of ramp only. For details not shown, see Std. Drg. RD759.
- For lowered island, lower grade of Island interior as reqd. to accomplish a min. 5'x5' landing in center of Island.
- 4. Locate poles, pedestals, etc. so that a min. 5' x 5' clear space is available in the landing.
- 5. Landing, in lowered island, shall have a slope of 2% max. in any direction.
- Locate pedestrian pushbuttons, etc., so they are accessible from landing or cut through area (See Detail "A").
- 7. The min, area of Islands that contain signal poles, pedestals, etc., shall be 75 sq. ft.
- For cut through Islands dowel each Island segment to the purit, with a min. of 2, ¾' dia, dowels. Dowel the nose section of the raised median Island with a minimum of 2, ¾' dia, dowels. Place dowels as directed.
- 9. Align ramps for lowered island and cut through island with the crosswalk.
- 10. See Std. Drgs. RD700, RD701, RD705, RD706 & RD755 for additional details.

- 11. See Std. Drg. RD705 for expansion and contraction joint spacing
- 12. See Std. Drgs. TM503 & TM530 for crosswalk markings, widths, etc.
- 13. Curb type and median width as shown on plans or as directed.
- 14. For Island nose treament, see Std. Drg. RD707.

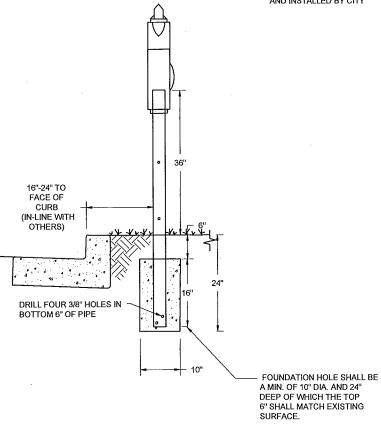
CALC, BOOK NO. ____N/A___ 23-JUL-2012 BABELINE REPORT DATE . _ NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications **OREGON STANDARD DRAWINGS** The selection and use of this Standard Drawing, while designed in accordance with generally ACCESSIBLE ROUTE ISLANDS accepted engineering principles and practices, is the sole responsibility of the user and should not 2008 be used without consulting a DATE DE-BOIR REVISION DESCRIPTION Registered Professional Engineer. REVISED DETAILS & HOTES
ADDED HOTES

ACCESSIBLE ROUTE ISLANDS REVISIONS DATE DESCRIPTION 01/09 DELETE NOTE 2.	
CITY OF EUGENE STANDARD DRAWING AMENDMENT ACCESSIBLE ROUTE ISLANDS REVISIONS DATE DESCRIPTION 01/09 DELETE NOTE 2.	CHANGE THE TYPICAL DIMENSION ON OPENINGS FOR RAISED RIGHT TURN CHANNELIZATION ISLAND
CITY OF EUGENE STANDARD DRAWING AMENDMENT ACCESSIBLE ROUTE ISLANDS REVISIONS DATE DESCRIPTION 01/09 DELETE NOTE 2.	
CITY OF EUGENE STANDARD DRAWING AMENDMENT ACCESSIBLE ROUTE ISLANDS REVISIONS DATE DESCRIPTION 01/09 DELETE NOTE 2.	
CITY OF EUGENE STANDARD DRAWING AMENDMENT ACCESSIBLE ROUTE ISLANDS REVISIONS DATE DESCRIPTION 01/09 DELETE NOTE 2.	
CITY OF EUGENE STANDARD DRAWING AMENDMENT ACCESSIBLE ROUTE ISLANDS REVISIONS DATE DESCRIPTION 01/09 DELETE NOTE 2.	ADDITIONAL NOTES TO RD710
STANDARD DRAWING AMENDMENT ACCESSIBLE ROUTE ISLANDS REVISIONS DATE DESCRIPTION 01/09 DELETE NOTE 2.	
STANDARD DRAWING AMENDMENT ACCESSIBLE ROUTE ISLANDS REVISIONS DATE DESCRIPTION 01/09 DELETE NOTE 2.	
DATE DESCRIPTION 01/09 DELETE NOTE 2.	STANDARD DRAWING AMENDMENT City of EUGENE
	REVISIONS DATE DESCRIPTION



ADDITIONAL DETAILS

PARKING METER HEAD PROVIDED AND INSTALLED BY CITY



PARKING METER IN LANDSCAPE

PARKING METER IN HARDSCAPE

CONCRETE.

2" SCH. 80 GALV.

GROUND LEVEL

DRILL ONE EA. 1/4" DRAIN

HOLE AT 4" AND 18" ABOVE

CORE DRILL A MIN. 3" DIA. HOLE, 10" DEEP IN

EXISTING CONCRETE. BACKFILL HOLE WITH

STEEL PIPE

MODIFICATIONS TO RD720

- 1. DELETE GENERAL NOTE 2.
- 2. CONTRACTION JOINTS AND TOOLED "DUMMY" JOINTS SHALL BE ONE IN THE SAME, TOOLED TO 1/3 THE SLAB DEPTH, AND THE DISTANCE BETWEEN THEM SHALL BE EQUAL TO THE SIDEWALK WIDTH.
- 3. ALL TOOLED RADIUS SHALL BE 3/8".
- 4. 1" OF 3/4"-0 AGGREGATE SHALL BE PLACED UNDER SIDEWALKS.
- 5. RESIDENTIAL DRIVEWAY SECTIONS SHALL BE 5" CONCRETE ON 1" AGGREGATE.
- 6. COMMERCIAL DRIVEWAY SECTIONS SHALL BE 7" CONCRETE ON 1" AGGREGATE.
- 7. CHANGE TAPER LENGTH FROM 5' TO 10' ON DETAIL "REQUIRED SIDEWALK WIDENING AROUND OBSTRUCTIONS".
- 8. MODIFY NOTE 3 TO READ "INSTALL 3" PVC WEEPHOLE PIPES IN SIDEWALK LOCATIONS AS DIRECTED BY THE ENGINEER. PLACE CONTRACTION JOINT OVER TOP OF PIPE."

ADDITIONAL NOTES TO RD720

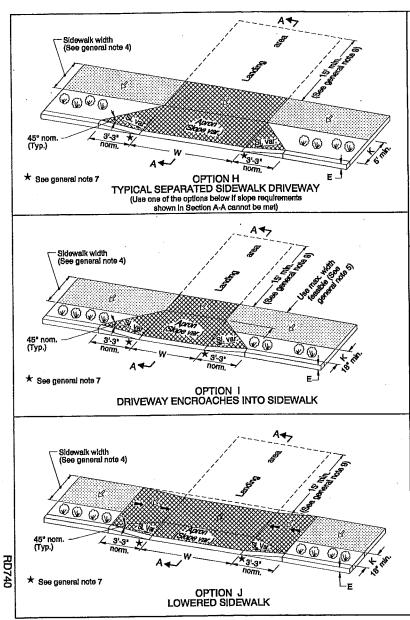
CITY OF EUGENE STANDARD DRAWING **AMENDMENT**

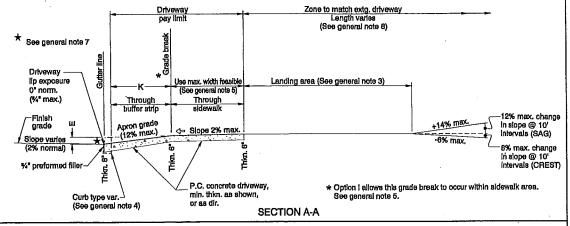


SIDEWALK	S
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	REVISIONS	
DATE	DESCRIPTION	
01/09	ADD NOTE 8	
10/09	DELETED EXPANSION JOINT DETAIL	
1/11	MODIEV NOTE 8	

RD720(A)

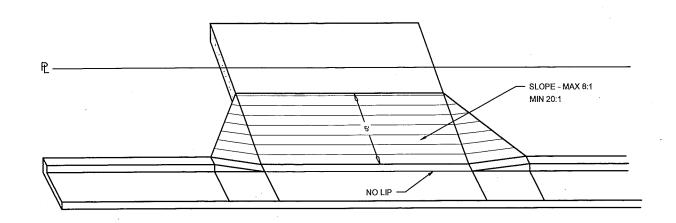




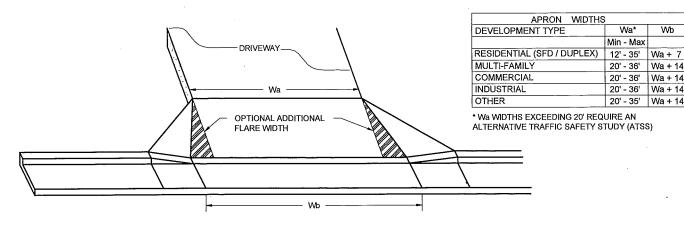
GENERAL NOTES FOR ALL DETAILS:

- 1. Details are based on United States Access Board Standards.
- 2. Only use details allowed by jurisdiction.
- 3. The following dimensions are as shown on plans, or as directed: driveway width, driveway slope, sidewalk width, buffer strip width, curb exposure, driveway lip exposure, landing area length and width.
- Curb, gutter, and sidewalk types varies, see plans. See Std. Drgs. RD700 & RD701 for curb details. See Std. Drg. RD720 for sidewalk details.
- 5, 4' unobstructed clear passage with slope of 2% max. Is required behind driveway apron. 3.5' width is acceptable where sidewalk width is less than standard 6'.
- 6. Where existing driveway is in good condition, and meets slope requirements, construct only as much as required for satisfactory connection with new work.
- Check the gutter flow depth at driveway locations to assure that the design flood does not overtop the back of sidewalk at driveway. If overtopping occurs place an inlet at upstream side of driveway or perform other approved design mitigation.
- 8. Tooled joints are required at all driveway slope break lines.
- 9. 15' min. of the driveway behind the sidewalk should be surfaced to prevent tracking of gravel onto the sidewalk.
- 10. Any dimensions except those of general note 5 may be amended by local agencies for their use.
- 11. In alterations, curb ramp slope(s) may be 10% for a max, rise of 6*, or 12.5% for a max, rise of 3*.

	and the second s					
⇔	Slope 2% max.		CALID, BOOK NON/A	BASELINE REPORT DATE 23-JUL-2012		
`		e 8.33% (1":12") max. inplength 15' max.) is general note 11) NOTE: This drawing is to be			NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications	
-	(Ramp length 15' max.) (See general note 11)		The selection and use of this	OREGON STANDARD DRAWINGS		
w	Width of driveway		drewing is to be Standard Drawing, while designed in accordance with generally	SEPARATED SIDEWALK DRIVEWAYS OR ALLEYS (OPTIONS H, I & J)		
к	Buffer strip width	design of driveways on their facilities.	and practices, is the sole respon- sibility of the user and should not	LOCAL JURISDICTIONS		
l -	Out amount	L	be used without consulting a	DATE REVISION DESCRIPTION		
E	Curb exposure		Registered Professional Engineer.	04-8008 REVISED DETALIS & HOTES		
FXXXXXX			TO BOOK OF A LONG OF ALL PRINCES.	07-8010 REVISED DETAILS & NOTES		
I ‱∭	Driveway pay limit			07-4011 REVISED DETAIL & HOTE 07-4012 REVISED DETAILS, REVISED & ADDED HOTES		
10000000			i .	1,		



THIS DETAIL USED ONLY WHERE NO SIDEWALKS ARE PROPOSED IN THE FUTURE



OPTIONAL ADDITIONAL WING WIDTH MAY BE USED WITH OPTIONS H, I OR J

MODIFICATIONS TO RD740

- 1. DELETE SECOND SENTENCE OF NOTE #5.
- 2. DELETE NOTE #6, #8 #10.
- 3. SECTION A-A: DELETE PREFORMED FILLER.
- 4. RESIDENTIAL DRIVEWAY SECTIONS SHALL BE 5" CONCRETE ON 1" AGGREGATE.
- 5. FOR DRIVEWAYS SERVING ALL OTHER USES AND FOR ALLEYS THE DRIVEWAY SECTIONS SHALL BE 7" CONCRETE ON 1" AGGREGATE.

ADDITIONAL NOTES TO RD740

CITY OF EUGENE STANDARD DRAWING **AMENDMENT**

Wa*

Min - Max

20' - 36' Wa + 14

20' - 36' Wa + 14

20' - 36' Wa + 14

20' - 35' Wa + 14

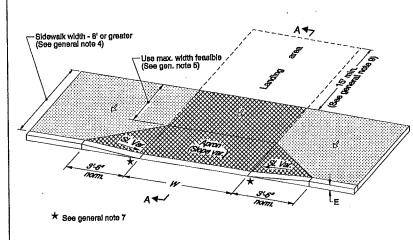
Wb

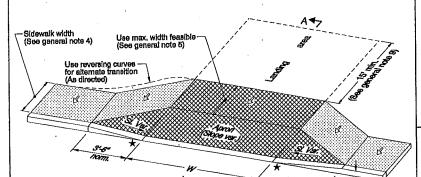


SEPARATED SIDEWALK **DRIVEWAYS OR ALLEYS** (OPTIONS H, I, & J)

	REVISIONS
DATE	DESCRIPTION
5/08	ADDED VERBIAGE TO NOTE 5
12/09	REVISED NOTES 1 AND 2. ADDED DETAIL
1/11	ADDED DETAIL

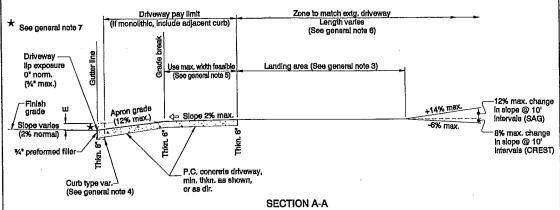
RD740(A)





OPTION K
DRIVEWAY IN WIDE (8' OR GREATER) SIDEWALK

OPTION L SIDEWALK WRAPPED AROUND DRIVEWAY

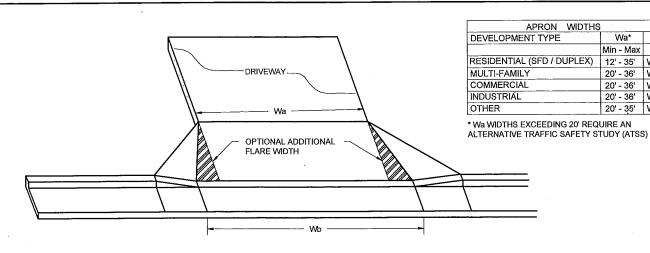


GENERAL NOTES FOR ALL DETAILS:

- 1. Details are based on United States Access Board Standards.
- 2. Only use details allowed by jurisdiction.
- 3. The following dimensions are as shown on plans, or as directed: driveway width, driveway slope, sidewalk width, curb exposure, driveway lip exposure, landing area length and width.
- Curb, gutter, and sidewalk types varies, see plans. See Std. Drgs. RD700 & RD701 for ourb details. See Std. Drg. RD720 for sidewalk details.
- 5. 4' unobstructed clear passage with slope of 2% max. Is required behind driveway apron. 3.5' width is acceptable where sidewalk width is less than standard 6'.
- 8. Where existing driveway is in good condition, and meets slope requirements, construct only as much as required for satisfactory connection with new work.
- 7. Check the gutter flow depth at driveway locations to assure that the design flood does not overtop the back of skiewalk at driveway. If overtopping occurs place an inlet at upstream side of driveway or perform other approved design mitigation.
- 8. Tooled joints are required at all driveway slope break lines.
- 9. 15' min. of the driveway behind the sidewalk should be surfaced to prevent tracking of gravel onto the sidewalk.
- 10. Monolithic curb & sidewalk shall retain thickened edge through lowered profile, to accompdate driveway use. See Std. Drg. RD720 for details.
- 11. Any dimensions except those of general note 5 may be amended by local agencies for their use.

(=	Slope 2% max.		CALD, BOOK NO,NA	BASEL	NE REPORT DATE	
W Width of driveway E Curb exposure					NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications	
		The selection and use of this	OF	REGON STANDARD DRAWINGS		
			Standard Drawing, while designed	CU	CURB LINE SIDEWALK DRIVEWAYS	
	Driveway pay limit (If monolithic, include adjacent curb)		in accordance with generally accepted engineering principles		OR ALLEYS (OPTIONS K & L)	
			and practices, is the sole respon- sibility of the user and should not		,	
	NOTE:		be used without consulting a			
This drawing is to be used by local agencies to assist them in the design of driveways on their facilities.				DATE		
			Registered Professional Engineer.	97-8911	MEYINGED DISTAVLIS & NOTES	
			1	Q7-80(B	OR ALLEYS (OPTIONS K & L) LOCAL JURISDICTIONS 2008 REVISION DESCRIPTION REVISION DESCRIPTION REVISION DESCRIPTION	
			1	L		
			1			

★ See general note 7



OPTIONAL ADDITIONAL WING WIDTH MAY BE USED WITH OPTIONS K OR L

MODIFICATIONS TO RD745

- 1. DELETE SECOND SENTENCE OF NOTE #5.
- 2. DELETE NOTES #6, #8 & #11.

Wa*

Min - Max

20' - 36'

20' - 36'

12' - 35' Wa + 7

20' - 36' Wa + 14

20' - 35' Wa + 14

Wb

Wa + 14

Wa + 14

- 3. SECTION A-A: DELETE PREFORMED FILLER.
- 4. RESIDENTIAL DRIVEWAY SECTIONS SHALL BE 5" CONCRETE ON 1" AGGREGATE.
- 5. FOR DRIVEWAYS SERVING ALL OTHER USES AND FOR ALLEYS THE DRIVEWAY SECTIONS SHALL BE 7" CONCRETE ON 1" AGGREGATE.

ADDITIONAL NOTES TO RD745

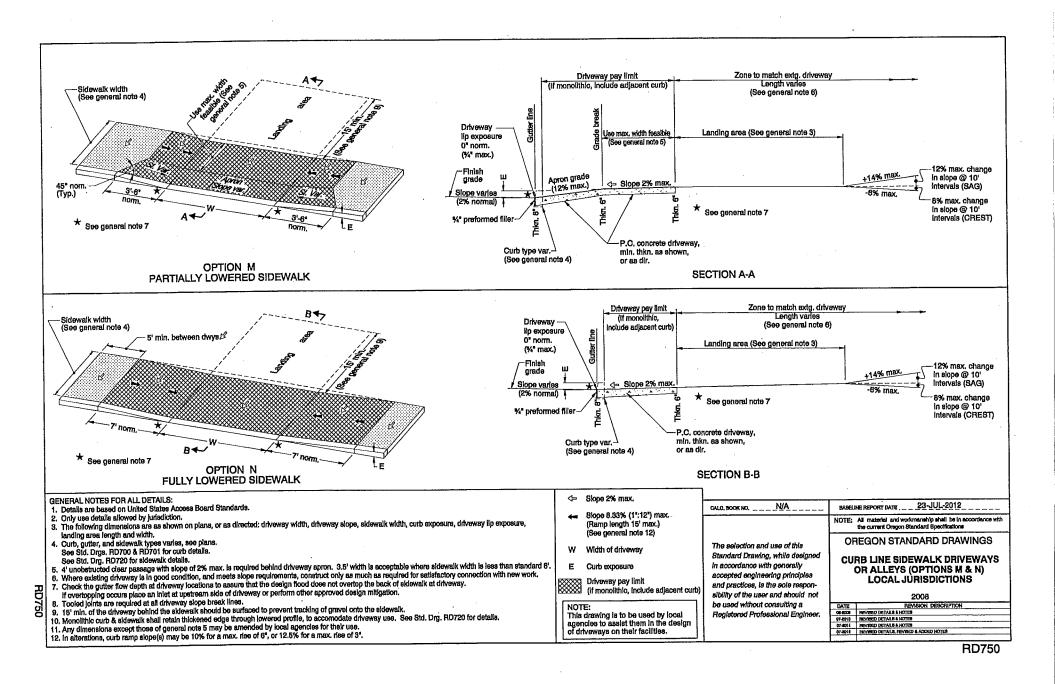
CITY OF EUGENE STANDARD DRAWING AMENDMENT

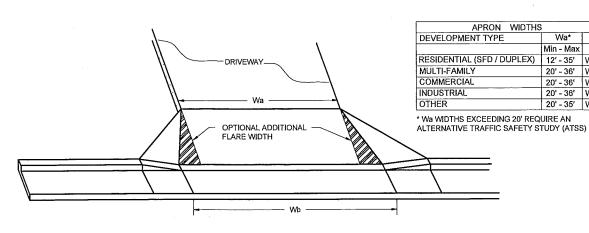


CURB LINE SIDEWALK DRIVEWAYS OR ALLEYS (OPTIONS K & L)

		,
	REVISIONS	
DATE	DESCRIPTION	
5/08	ADDED VERBIAGE TO NOTE 5	
12/09	MODIFIED NOTES 1 AND 2	,
1/11	ADDED DETAIL	

RD745(A)





OPTIONAL ADDITIONAL WING WIDTH MAY BE USED WITH OPTIONS M OR N

MODIFICATIONS TO RD750

- 1. DELETE SECOND SENTENCE OF NOTE #5.

Wa*

12' - 35' Wa + 7

20' - 36' Wa + 14

20' - 36' Wa + 14

20' - 36' Wa + 14

20' - 35' Wa + 14

Min - Max

Wb

- 2. DELETE NOTES #6, #9 & #11.
 3. SECTION A-A: DELETE PREFORMED FILLER.
- 4. RESIDENTIAL DRIVEWAY SECTIONS SHALL BE 5" CONCRETE ON 1" AGGREGATE.
- 5. FOR DRIVEWAYS SERVING ALL OTHER USES AND FOR ALLEYS THE DRIVEWAY SECTIONS SHALL BE 7" CONCRETE ON 1" AGGREGATE.

ADDITIONAL NOTES TO RD750

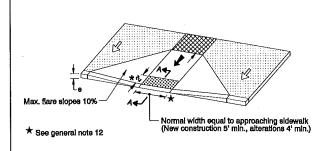
CITY OF EUGENE STANDARD DRAWING **AMENDMENT**



CURB LINE SIDEWALK DRIVEWAYS OR ALLEYS (OPTIONS M & N)

	REVISIONS
DATE	DESCRIPTION
5/08	ADDED VERBIAGE TO NOTE 5
12/09	MODIFIED NOTES 1 AND 2
1/11	ADDED DETAIL

RD750(A)



Const. 6" wide (Nom.) curb at back of ramp unless otherwise directed * See general note 12 Normal width equal to approaching sidewalk (New construction 5' min., alterations 4' min.)

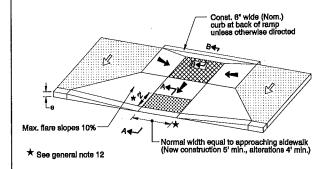
@@@@ (Typ.) ★ See general note 12 Normal width equal to approaching sidewalk (New construction 5' min., alterations 4' min.)

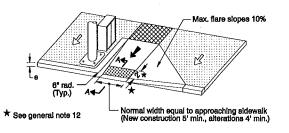
PERPENDICULAR SIDEWALK RAMP DETAIL

(Use "Parallel Sklewalk Ramp Detail" or "Combination Sidewalk Ramp Detail" when read. landing cannot be obtained)

PARALLEL SIDEWALK RAMP DETAIL

PERPENDICULAR SIDEWALK RAMP DETAIL (THROUGH BUFFER STRIP)





COMBINATION SIDEWALK RAMP DETAIL

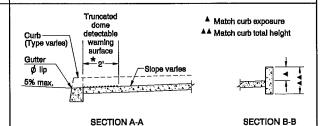
PERPENDICULAR SIDEWALK RAMP DETAIL (WITH SINGLE FLARE)

(Use "Parallel Sidewalk Ramp Detail" or "Combination Sidewalk Ramp Detail" when read, landing cannot be obtained)

GENERAL NOTES FOR ALL DETAILS:

- 1. Sidewalk ramp details are based on United States Access Board Standards.
- See Std. Drgs. RD700 & RD701 for curbs. See Std. Drg. RD720 for sidewalks. See Std. Drgs. TM503 & TM530 for crosswalk markings, widths, etc.
- 3. Tooled joints are required at all sidewalk ramp slope break lines.
- 4. Sidewalk curb ramp slopes shown are relative to the true level horizon (Zero bubble).
- 5. Place truncated dome detectable warning surface in the lower 2' adjacent to traffic of throat of ramp only. For details not shown, see Std. Drg. RD759.
- 6. Side flares that are not part of the path of travel may be any slope.
- 7. Sidewalk flare is not necessary where the ramp is protected from pedestrian cross-travel.

- 8. For the purpose of this drawing, a curb ramp is considered "perpendicular" if the angle between the longitudinal axis of the ramp and a line tangent to the curb at the ramp center is 75° or greater.
- Ramps for paths intersecting a roadway should be full width of path, excluding flares.
 When a ramp is used to provide bicycle access from a roadway to a sidewalk, the ramp should be 8' wide.
- 10. In alterations, curb ramp slope(s) may be 10% for a max. rise of 6*, or 12.5% for a max, rise of 3".
- 11. For sidewalk ramp placement options, see Std. Drgs. RD758 & RD757.
- 12. Check the gutter flow depth at ramp locations to assure that the design flood does not overtop the back of sidewalk at ramp. If overtoping occurs place an inlet at upstream side of ramp or perform other approved design mitigation.
- 13. Only use details allowed by jurisdiction.



 \Diamond Slope 2% max.

Slope 8.33% (1":12") max. (See general note 10)

Truncated dome detectable warning surface

Landing Area (Min. level area 48" x 48") For the purposes of this application,

a 2% maximum slope (For drainage) is considered level * 2'

CALC, BOOK NO. ___N/A_____ BASELINE REPORT DATE

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications **OREGON STANDARD DRAWINGS** The selection and use of this Standard Drawing, while designed In accordance with generally

accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

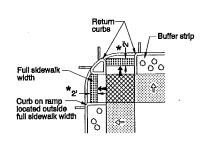
SIDEWALK RAMP DETAILS

REVISION DESCRIPTION REVISED DETAILS & NOTE: 12-2008 NEVISED HOTE 77-2010

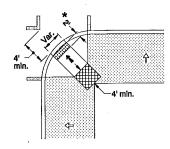
09-JUL-2010

		 	MODIFICATIONS TO RD755
		,	1. DELETE NOTE #9.
		·	
			·
•			
			ADDITIONAL NOTES TO RD755
		•	CITY OF EUGENE STANDARD DRAWING AMENDMENT
	•		SIDEWALK RAMP DETAILS T REVISIONS
			REVISIONS DATE DESCRIPTION 01/09 MODIFY NOTES

· ·



OPTION A
PERPENDICULAR RAMP WITH LANDSCAPED BUFFER STRIP

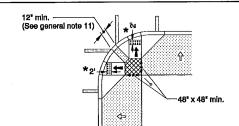


OPTION D DIAGONAL RAMP (FOR WIDE SIDEWALKS)

Use in alterations only and when site constraints prohibit installing two ramps

GENERAL NOTES FOR ALL DETAILS:

- 1. Sidewalk ramp details are based on United States Access Board Standards.
- See Std. Drgs. RD700 & RD701 for curbs. See Std. Drg. RD720 for sidewalks. See Std. Drgs. TM503 & TM530 for crosswalk markings, widths, etc. See Std. Drg. RD755 for sidewalk ramp details.
- 3. Tooled joints are required at all sidewalk ramp slope break lines.
- 4. Sidewalk curb ramp slopes shown are relative to the true level horizon (Zero bubble).
- Place truncated dome detectable warning surface in the lower 2' adjacent to traffic of throat of ramp only. For details not shown, see Std. Drg. RD759.
- Side flaree that are not part of the path of travel may be any slope. Check the gutter flow depth to assure that the design flood does not overnop the back of sklewalk. If overtopping occurs place an inlet at upstream side or perform other approved design mitigation.



OPTION B
PERPENDICULAR RAMP (FOR WIDE SIDEWALKS)

Marked or intended crossing location

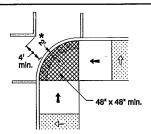
Slope 2% max.

Slope 8.33% (1":12") max. (Ramp length 15" max.) (See general note 10)

Truncated dome detectable warning surface

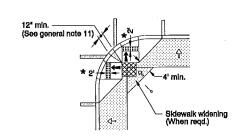
Landing Area (Minimum level area 48" x 48")
For the purposes of this application,
a 2% maximum slope (For drainage) is considered level

*2' See general note 5

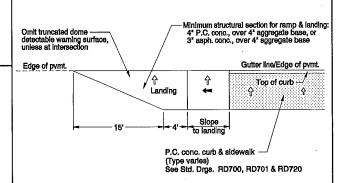


OPTION E DIAGONAL-PARALLEL RAMP (FOR SIDEWALK WIDTHS ≥ RADIUS) Use in alterations only and when site constraints prohibit installing two ramps

- 7. Sidewalk flare is not necessary where the ramp is protected from pedestrian cross-travel.
- For the purpose of this drawing, a curb ramp is considered "perpendicular" if the angle between the longitudinal axis of the ramp and a line tangent to the curb at the ramp center is 75° or greater.
- Ramps for paths intersecting a roadway should be full width of path, excluding flares.
 When a ramp is used to provide bloycle access from a roadway to a sidewalk, the ramp should be 8! wide.
- In alterations, curb ramp slope(s) may be 10% for a max. rise of 6*, or 12.5% for a max. rise of 3*.
- 11. When 2 curb ramps are immediately adjacent as in Options B & C, the curb exposure (e) between the adjacent side flares may range between 3° and full design exposure.
- 12. Only use options allowed by jurisdiction.



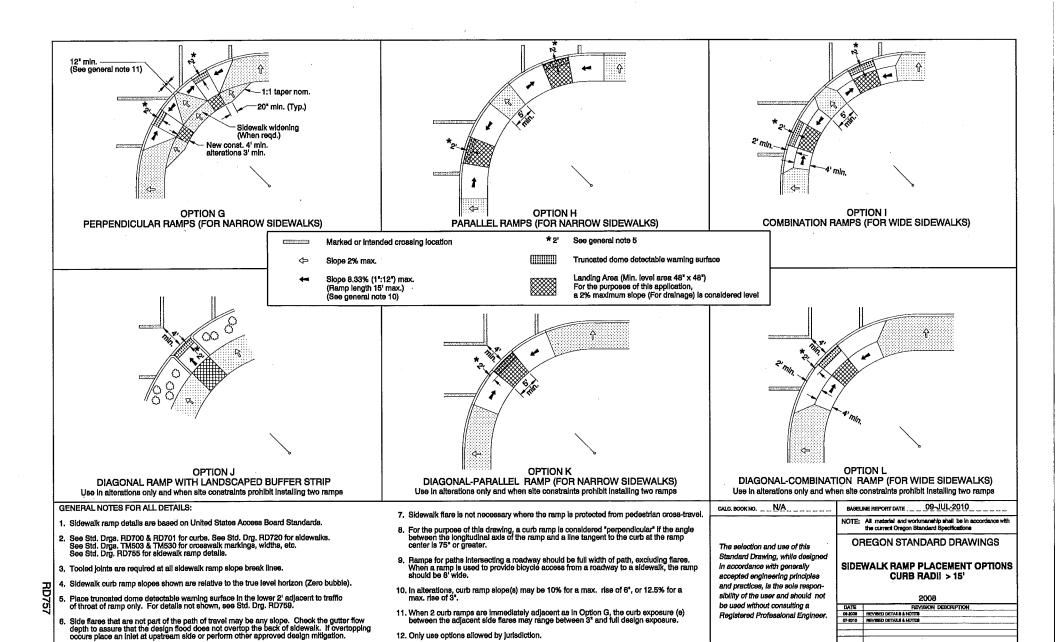
OPTION C
PERPENDICULAR RAMP (FOR NARROW SIDEWALKS)



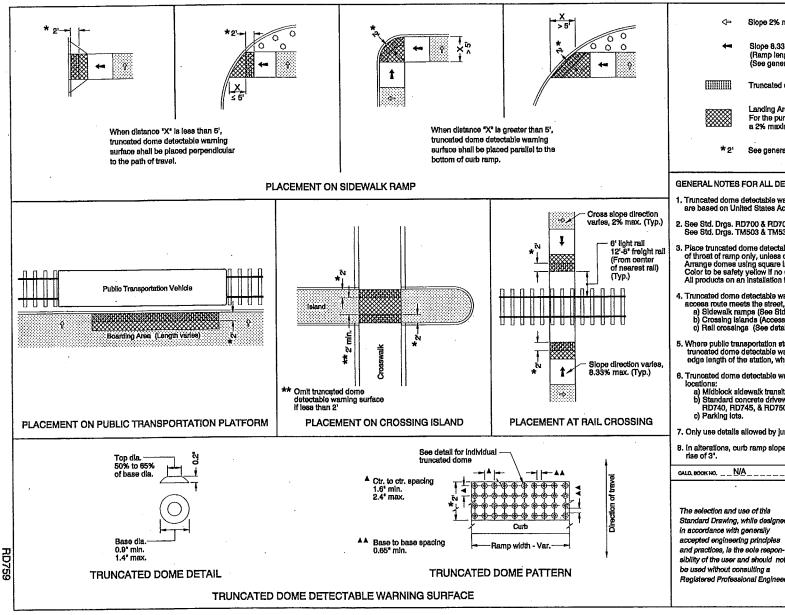
OPTION F
SIDEWALK RAMP AND LANDING (FOR ENDS OF SIDEWALKS)

CALC, BOOK HO. __N/A____ 09-JUL-2010_ BASELINE REPORT DATE . _ _ NOTE: All material and workmanship shall be in accordance with the current Oragon Standard Specifications **OREGON STANDARD DRAWINGS** The selection and use of this Standard Drawing, while designed In accordance with generally SIDEWALK RAMP PLACEMENT OPTIONS accepted engineering principles CURB RADII ≤ 15' and practices, is the sole responsibility of the user and should not be used without consulting a DATE REVISION DESCRIPTION Registered Professional Engineer. REVISED & ADDED HOTE NEVIGEO DETALA A NOTES

MODIFICATIONS TO RD756 1. DELETE OPTIONS C, D, E, & F. 2. CHANGE 3" TO 4" IN NOTE 11. 3. DELETE NOTE #9.
S. BEEFE NOTE #5.
·
·
ADDITIONAL NOTES TO RD756
CITY OF EUGENE
STANDARD DRAWING AMENDMENT CITY of CULTY of CULTY of CULTY of CULTY of CULTY of
SIDEWALK RAMP PLACEMENT OPTIONS CURB RADII < 15' REVISIONS DATE DESCRIPTION
1/11 ADD NOTE 3 RD756(A)



RD757



Slope 2% max.

Slope 8.33% (1":12") max. (Ramp length 15' max.) (See general note 8)

Truncated dome detectable warning surface

Landing Area (Minimum level area 48" x 48") For the purposes of this application, a 2% maximum slope (For drainage) is considered level

See general note 3

GENERAL NOTES FOR ALL DETAILS:

- 1. Truncated dome detectable warning surface details & locations are based on United States Access Board Standards.
- See Std. Drgs. RD700 & RD701 for curbs. See Std. Drg. RD720 for sidewalks. See Std. Drgs. TM503 & TM530 for crosswalk markings, widths, etc.
- Piace truncated dome detectable warning surface in the lower 2' adjacent to traffic of throat of ramp only, unless otherwise shown. Arrange domes using square in-line pattern only.

 Color to be safety yellow if no color specified in construction note.

 All products on an installation to be identical.
- 4. Truncated dome detectable warning surface shall be used where the pedestrian access route meets the street, in the following locations:
 a) Sidewalk ramps (See Std. Drgs. RD755, RD756, & RD757).
 b) Crossing Islands (Accessible Route Islands), (See Std. Drg. RD710).
 o) Reil crossings (See detail).

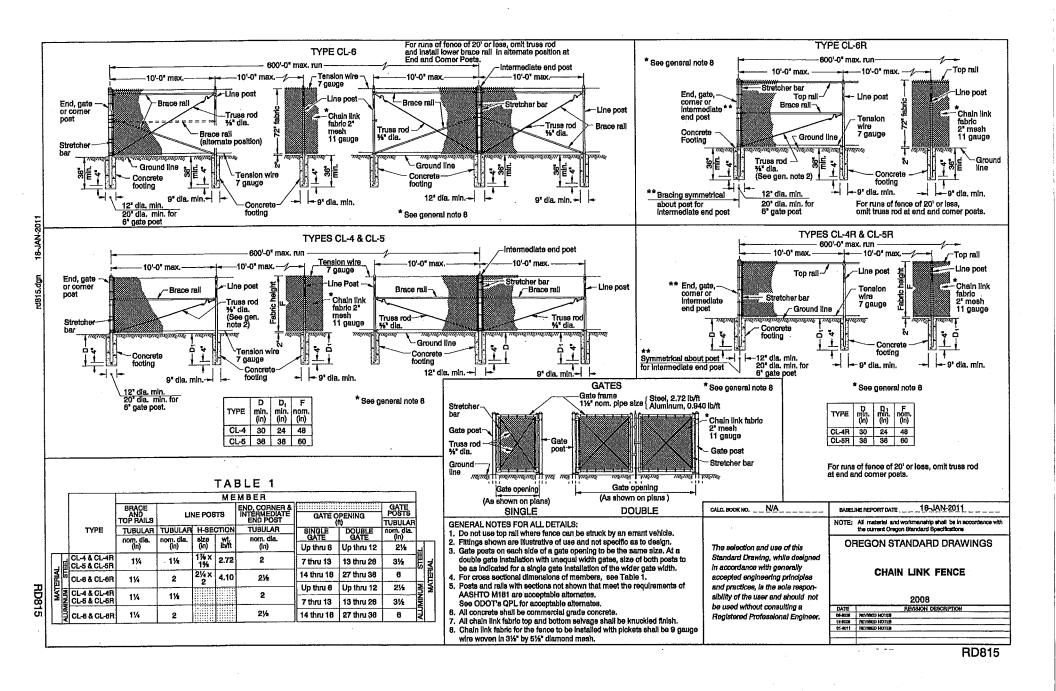
- 5. Where public transportation stations (rail, bus, etc.) use platform boarding, truncated dome detectable warning surface shall be placed along the full edge length of the station, when not protected by platform screens or guards.
- 6. Truncated dome detectable warning surface shall not be used on the following locations:
 - al Midblock aldewalk transitions (See Std. Drg. RD758).
 b) Standard concrete driveways (See Std. Drgs. RD725, RD730, RD735, RD740, RD745, & RD750).
 - c) Parking lots,
- 7. Only use details allowed by jurisdiction.
- 8. In alterations, curb ramp slope(s) may be 10% for a max. rise of 6°, or 12.5% for a max. rise of 3".

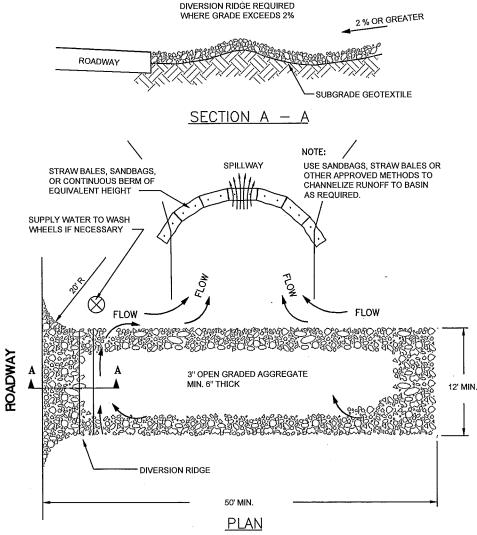
BASELINE REPORT DATE 23-JUL-2012

NOTE: All material and workmanahlp shall be in accordance with the current Oregon Standard Specifications **OREGON STANDARD DRAWINGS** The selection and use of this Standard Drawing, while designed TRUNCATED DOME in accordance with generally **DETECTABLE WARNING SURFACE** accepted engineering principles and practices, is the sole respon-**DETAILS & LOCATIONS** sibility of the user and should not 2008 be used without consulting a REVISED & ADDED NOTES REVISED DIMENSIONS AND NOTE Registered Professional Engineer.

07-8010 PREVIOUS DETAILS & NOTES

	MODIFICATIONS TO RD759
	DELETE "COLOR TO BE SAFETY YELLOW" FROM GENERAL NOTE #3.
	•
	·
	·
	ADDITIONAL NOTES TO RD759
	·
	·
	CITY OF EUGENE
	STANDARD DRAWING
	AMENDMENT EUGEN
	TRUNCATED DOME DETECTABLE
	WARNING SURFACE
	DETAILS & LOCATIONS
	REVISIONS DATE DESCRIPTION
•	* 10. 20. 10. 10. 10. 10. 10. 10. 10. 10. 10. 1





NOTES:

- 1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
- 3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
- 4. SITES LARGER THAN 1 ACRE REQUIRE THE CONSTRUCTION ENTRANCE BE A MINIMUM OF 100' IN LENGTH.

CONSTRUCTION ENTRANCE

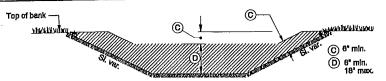
CITY OF EUGENE STANDARD DRAWING AMENDMENT



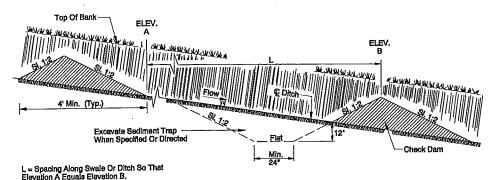
CONSTRUCTION ENTRANCE

	REVISIONS
DATE	DESCRIPTION
5/06	REFORMAT TITLE
1/09	NEW NOTE 4.

CRD1000-1



DITCH X-SECTION AT CHECK DAM



DITCH PROFILE SECTION WITH CHECK DAMS

When bid item is "Check Dams" the following When bid item is 'Check Dams' the following materials may be used, as appropriate to meet the functional requirements of the control.

Type 1. aggregate
Type 2. straw belse with aggregate welr
Type 3. blofilter bags
Type 4. sand bags
Type 5. prefab, check dam system

CHECK DAM Approximate Spacing

		D = Dimension	
Ditch Grade	6*	12"	18'
6%	**	15' O.C.	25' O.C.
5%	* *	20'	30'
4%	* *	25¹	40'
3%	15'	30	50'
2%	25'	50'	80'

** Not Allowed

RD1005

Notes:

 Type 2 only ---Entrench bales and aggr, a min. of 4*
Into the soil. Toe of last bale is highest water control point.

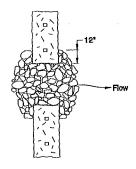
(2) Type 2 only - - - - Place bales so wire/twine binding mati. is not in contact with the soil.

Type 2 or 3 - - - Drive 2 stakes min. per bale or bag flush with top and into undisturbed ground a min. of 4". Stakes may be omitted if placed over paved surfaces.

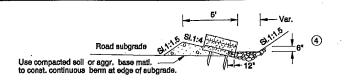
(4) Type 2, 3or 4 - - - Const. top of aggr. a min. of 6*
lower than the toe of last bale or bag.

Type 2 or 4 - - - -Tightiy abut or overlap ends of bales or bags at each joint.

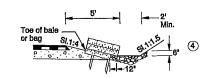
Type 3 ---Overlap bags 6" min. at each joint.



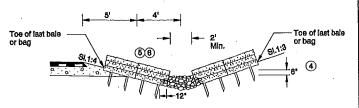
TOP VIEW TYPE 2, 3 & 4



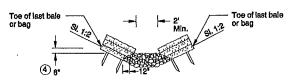
SUBGRADE SECTION



STEEP BACKSLOPE SECTION

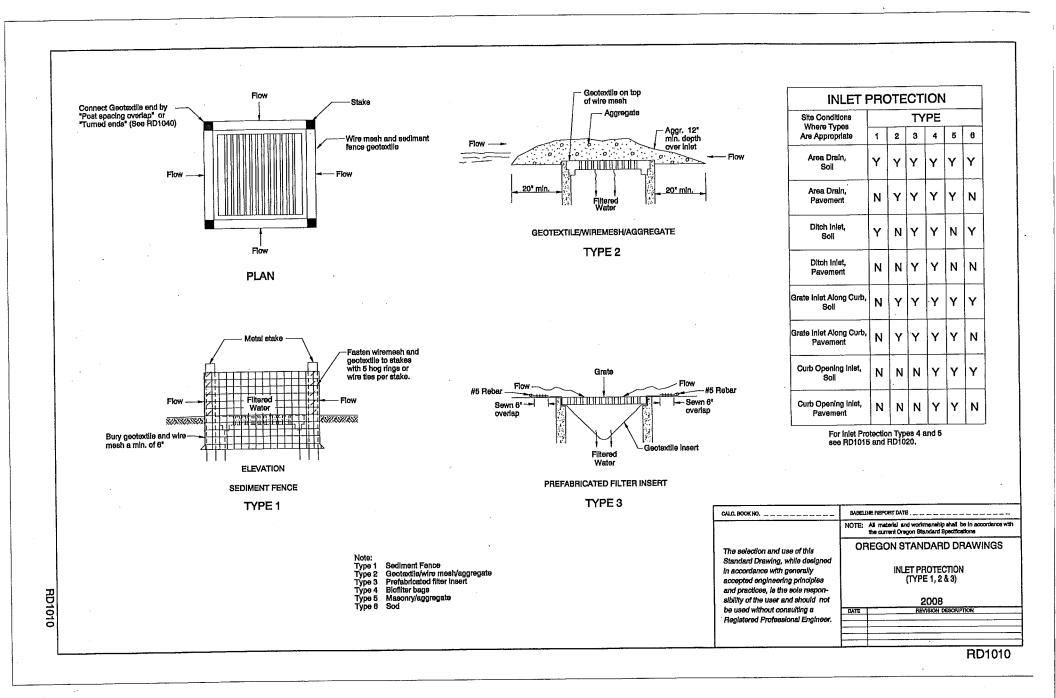


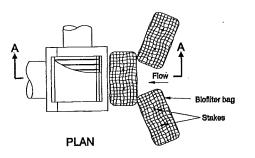
VARIABLE BACKSLOPE SECTION - 1:3 TO 1:6

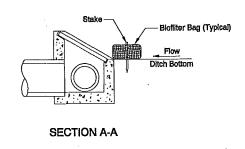


FLAT BOTTOM DITCH SECTION CHECK DAM TYPE 2, 3 & 4

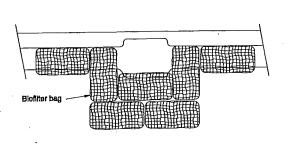
CVTO' BOOK NO'		BASEL	INE REPORT DATE
		NOTE:	All material and workmanship shall be in accordance with the current Oregon Standard Specifications
Şta.	selection and use of this ndard Drawing, while designed coordance with generally	O	REGON STANDARD DRAWINGS
accepted engineering prin	epted engineering principles i practices, is the sole respon-		CHECK DAMS
8/bl	lity of the user and should not	1	2008
	used without consulting a gistered Professional Engineer.	DATE	REVISION DESCRIPTION
٠			DD400F





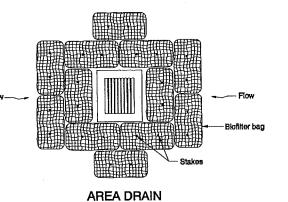


DITCH INLET



PLAN CATCH BASIN

RD1015



Note:

CALC. BOOK NO. ______

- Use 2 stakes per bag. Stakes may be omitted if bags are placed on pavement surface.
- 2. Overlap all bag joints 6".

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications **OREGON STANDARD DRAWINGS** The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole respon-INLET PROTECTION (TYPE 4) BIOFILTER BAGS sibility of the user and should not be used without consulting a Registered Professional Engineer.

2008 REVISION DESCRIPTION

BASELINE REPORT DATE . _____

>4% GRADE <4% GRADE - FLOW FLOW BIOFILTER BAGS INSTALL SEDIMENT DAMS IN CURB INLETS GRAVELFILLED BAGS **CB OR INLET GUTTER BAR CHECK DAMS GUTTER BAR CHECK DAMS** 1. OVERLAY BIOBAG ENDS 6". 2. ANGLE ENDS UPSTREAM.

3. AT GRADES > 4%, USE GRAVEL FILLED BAGS.

ADDITIONAL DETAILS

MODIFICATIONS TO RD1015

ADDITIONAL NOTES TO RD1015

- CREATE ADDITIONAL BIOFILTER BAG PONDING AREAS AREAS IN INTERVALS AS REQUIRED IN THE GUTTER (5' to 10' TYPICAL).
- MAINTAIN PONDING AREAS. REMOVE SEDIMENT ONCE IT HAS REACHED 1/3 THE HEIGHT OF THE STORAGE AREA.

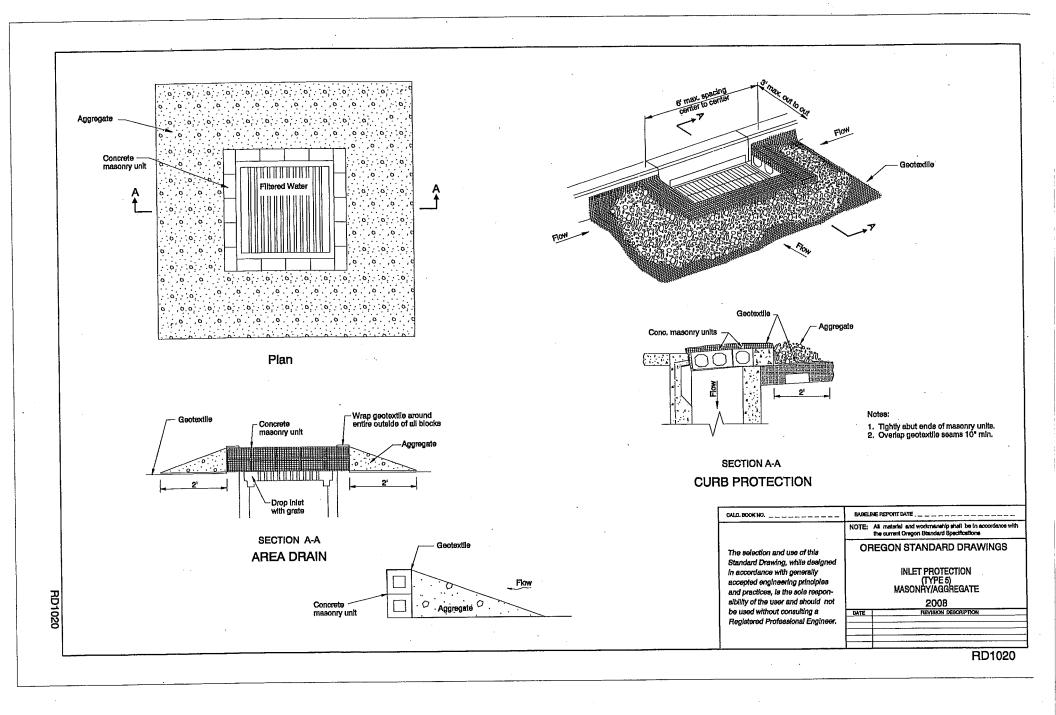
CITY OF EUGENE STANDARD DRAWING AMENDMENT

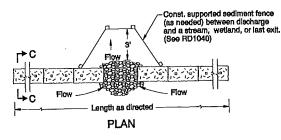


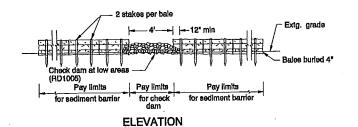
INLET PROTECTION (TYPE 4) BIOFILTER BAGS

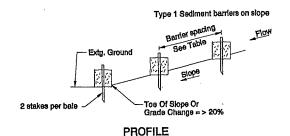
	REVISIONS]
DATE	DESCRIPTION	
01/09	ADD DETAIL	
01/11	ADDED NOTES	
02/12	ADDED DETAIL	

RD1015(A)



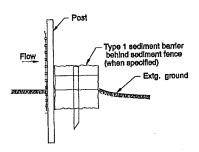






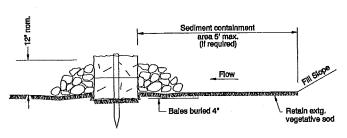
GENERAL APPLICATION

(Perimeter and overland flow)



SEDIMENT FENCE AND BARRIER

(Sediment Barrier when used as structural backing for Sediment Fence)



SECTION C-C

Tightly abut or overlap ends of bales at each joint 2 stakes per bale Toe of slope Stagger joints Flow Flow

PLAN Slope Application

NOTES: Sediment Barrier (Type 1)

- Entrench bales and aggr. a min. of 4" into the soil. Toe of last bale is highest water control point.
- Piace bales so wire/twine binding matl, is not in contact with the soil.
- Drive stakes flush with top of bale and into undisturbed ground a min. of 12"
- Const. top of aggr. a min. of 6" lower than the toe of last bale.

RD1025

Sediment fence and check dam paid for seperately or per special provisions.

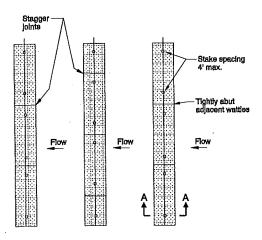
BARRIER SPACING FOR GENERAL APPLICATION

	STALL PARALLEL ALO ONTOURS AS FOLLOV	
% SLOPE	% SLOPE	MAXIMUM SPACING ON SLOPE
10% Flatter	1:10 or Flatter	300'
10>%≥15	10 >X≥7.5	150
15>% ≥ 20	7.5 > X ≥ 5	100'
20>%≥30	5> X≥ 3	50 ^t
Steeper than 30%	Steeper than 1:3	25'

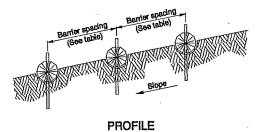
NOTES:
Type 1 Straw Bales
Type 2 Blofilter Bags
Type 3 Wattles
Type 4 Sand Bags
Type 5 Brush Barrier
Type 6 Filter Berm
Type 7 Prefabricated Barrier System
Type 8 Compost Filter Berm

	NOTE: All material and workmanehip shall be in accordance with the current Oregon Standard Specifications
The selection and use of this	OREGON STANDARD DRAWINGS
Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole respon-	SEDIMENT BARRIER (TYPE 1)
sibility of the user and should not	2008
be used without consulting a Registered Professional Engineer.	DATE REVISION DESCRIPTION

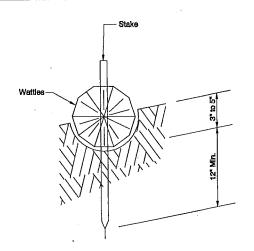
GALO, BOOK NO. ______



PLAN



Place wattles along slope contours.

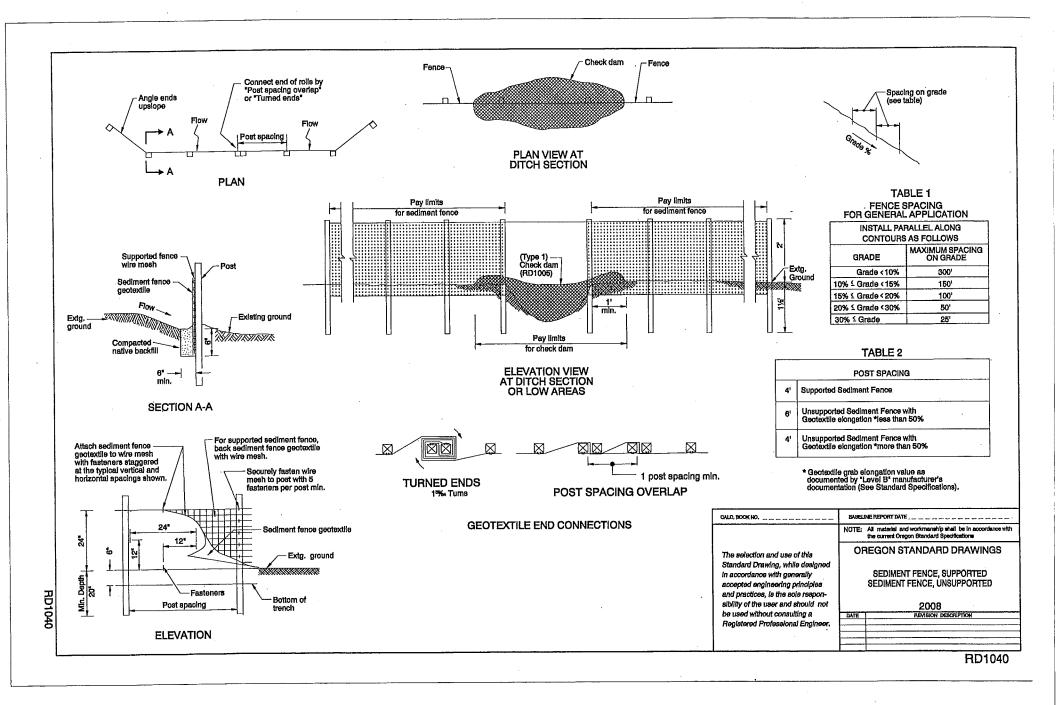


SECTION A-A

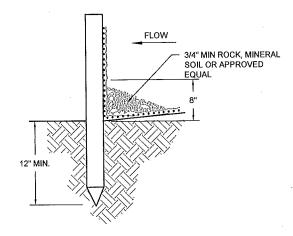
BARRIER SPACING FOR GENERAL APPLICATION

	STALL PARALLEL ALOI ONTOURS AS FOLLOW	
% SLOPE	% SLOPE	MAXIMUM SPACING ON SLOPE
10% Flatter	1:10 or Flatter	300'
10 >% ≥ 15	10>X ≥7.5	150'
15>%≥20	7.5> X ≥ 5	1001
20>%≥30	5> X <u>≥</u> 3	50'
Steeper than 30%	Steeper than 1:3	25'

CALC, BOOK NO	BASELINE REPORT DATE
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
The selection and use of this Standard Drawing, while designed	OREGON STANDARD DRAWINGS
In accordance with generally accepted engineering principles and practices, is the sole respon-	SEDIMENT BARRIER (TYPE 3)
sibility of the user and should not	2008
be used without consulting a Registered Professional Engineer.	DATE REVISION DESCRIPTION
(10glotored / refesolerial ingritori.	



ADDITIONAL DETAILS



SEDIMENTATION FENCE W/O TRENCHING

NOTES:

- 1. USE MUST BE APPROVED BY THE ENGINEER.
- 2. NOT APPROVED FOR USE WITH SEDIMENT FENCING WITH SEWN-IN POST POCKETS.

MODIFICATIONS TO RD1040

 WHEN SEDIMENT FENCING WITH POST POCKETS IS USED, THE POCKET SEAM SHALL BE ON THE DOWNSTREAM SIDE.

ADDITIONAL NOTES TO RD1040

- SEDIMENT FENCES SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
- 2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN IT REACHES 1/3 THE EXPOSED HEIGHT OF THE FENCE.
- 3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

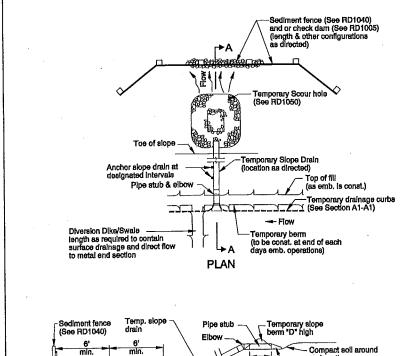
CITY OF EUGENE STANDARD DRAWING AMENDMENT

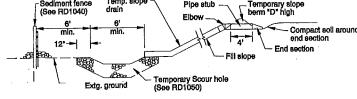


SEDIMENT FENCE, SUPPORTED & UNSUPPORTED

-	REVISIONS
DATE	DESCRIPTION
01/09	MODIFY DWG
01/11	ADDED DETAIL
02/12	MODIFIED DETAIL

RD1040(A)



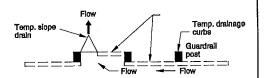


SECTION A-A

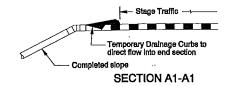
Notes:

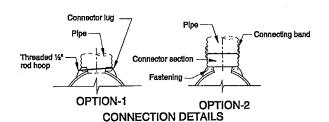
RD1045

- Temporary Slope Drains shall be used at the top of fill slopes as the embankment is constructed to prevent erosion
- Temporary Drainage Curbs shall be used in conjunction with Temporary Slope Drains to prevent erosion on completed slopes.
- All dimensions not indicated will be as directed.



GUARDRAIL SECTION





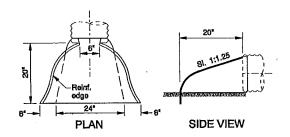
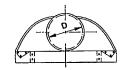


TABLE FOR PIPE SIZE				
PIPE CONTRIBUTING AREA				
Slope (mln.)	D In. (mln.)	TO SLO	PE DRAIN (sq ft)	
3.8%	6		A < 200	
2.5%	8	200	≤A < 500	
1.9%	10	500	≤A < 850	
1.5%	12	850	≤A <1400	
	SPECIAL DESKON REGIÓ.	1400	≤A	



FRONT VIEW END SECTION DETAILS

CALC. BOOK NO.

BASELINE REPORT DATE.

NOTE: All meterial and workmanship shall be in accordance with the current Oregon Standard Specifications

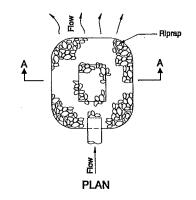
OREGON STANDARD DRAWINGS

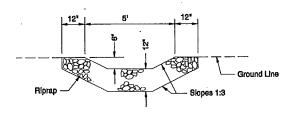
Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not

be used without consulting a

Registered Professional Engineer.

REVISION	DEBCRE	TION	





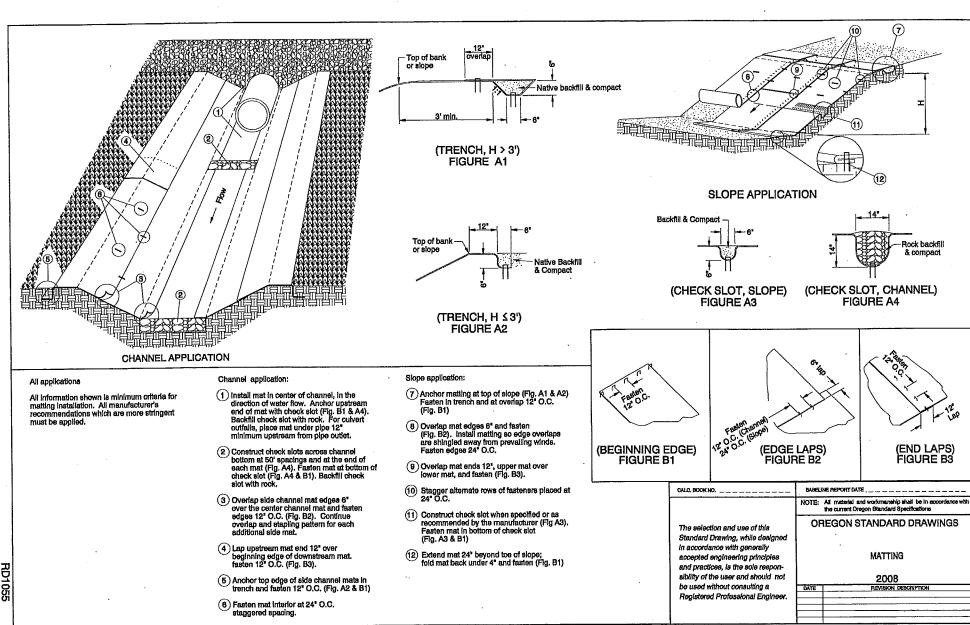
SECTION A-A

NOTES:

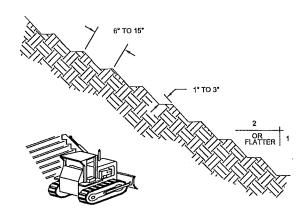
RD1050

All dimensions not indicated will be as directed.

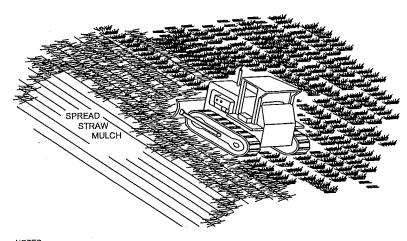
CALC. BOOK NO.	BABELINE REPORT DATE
	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
The selection and use of this Standard Drawing, while designed	OREGON STANDARD DRAWINGS
in accordance with generally accepted engineering principles and practices, is the sole respon-	TEMPORARY SCOUR HOLE
sibility of the user and should not	2008
be used without consulting a	DATE REVISION DESCRIPTION
Registered Professional Engineer.	



ADDITIONAL DETAILS

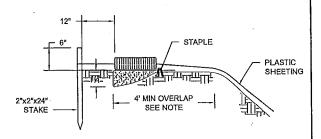


GROOVED OR SERRATED



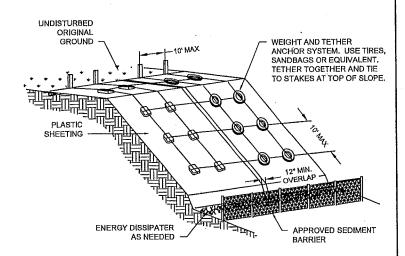
NOTES:
SLOPE MUST BE 3:1 OR FLATTER.
ROUGHEN SLOPE WITH BULLDOZER. SPREAD SEED
AND FERTILIZER.
STRAW ANCHORING METHOD:
FOLLOW ABOVE, THEN SPREAD 2* THICK STRAW
MULCH AND PUNCH STRAW MULCH INTO SLOPE BY
RUNNING DOZER UP AND DOWN THE SLOPE.

SURFACE ROUGHENING AND STRAW ANCHORING



NOTE:
OVERLAP PLASTIC SHEETING A MINIMUM OF 4' AS NEEDED TO COVER
DISTURBED SOIL. BACKFILL KEY WITH NATIVE MATERIAL AND COMPACT.

TOP OF SLOPE DETAIL



PLASTIC SLOPE PROTECTION

CITY OF EUGENE STANDARD DRAWING AMENDMENT

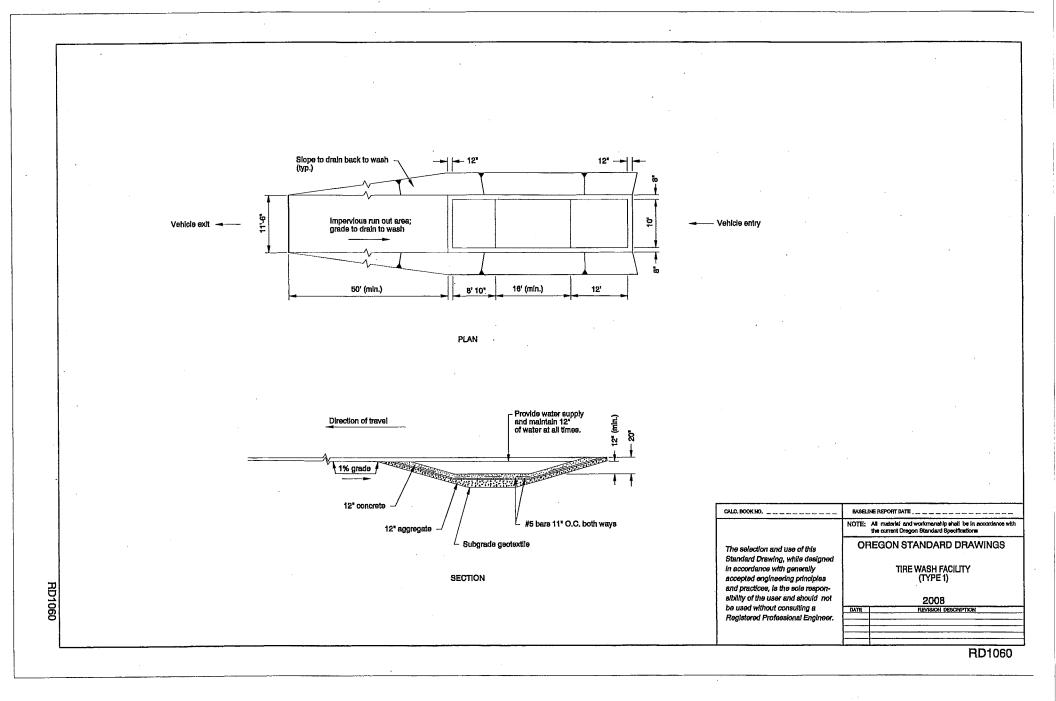


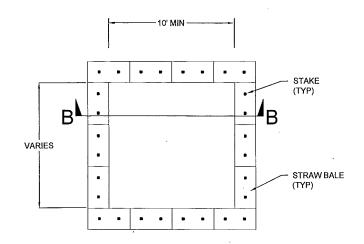
SLOPE PROTECTION

REVISIONS
DATE DESCRIPTION

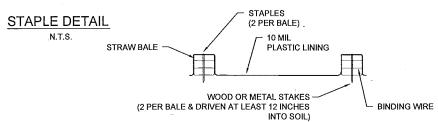
3/07

RD1055(A)









SECTION B-B N.T.S.

NOTES

- LOCATION OF CONCRETE WASHOUT FACILITY TO BE DETERMINED DURING THE ON-SITE PRE-CONSTRUCTION MEETING WITH EROSION PREVENTION PERMIT STAFF.
- 2. OTHER OPTIONS INCLUDE AN EXCAVATED PIT WITH 10 MIL PLASTIC LINER, OR A PREFABRICATED CONTAINER.
- LOCATE AT LEAST 25' AWAY FROM ANY STORM DRAINS, WHEN POSSIBLE.

CITY OF EUGENE STANDARD DRAWING AMENDMENT



CONCRETE WASH OUT

	REVISIONS	
DATE	DESCRIPTION	
2/12	MODIFIED NOTES	

CRD1061